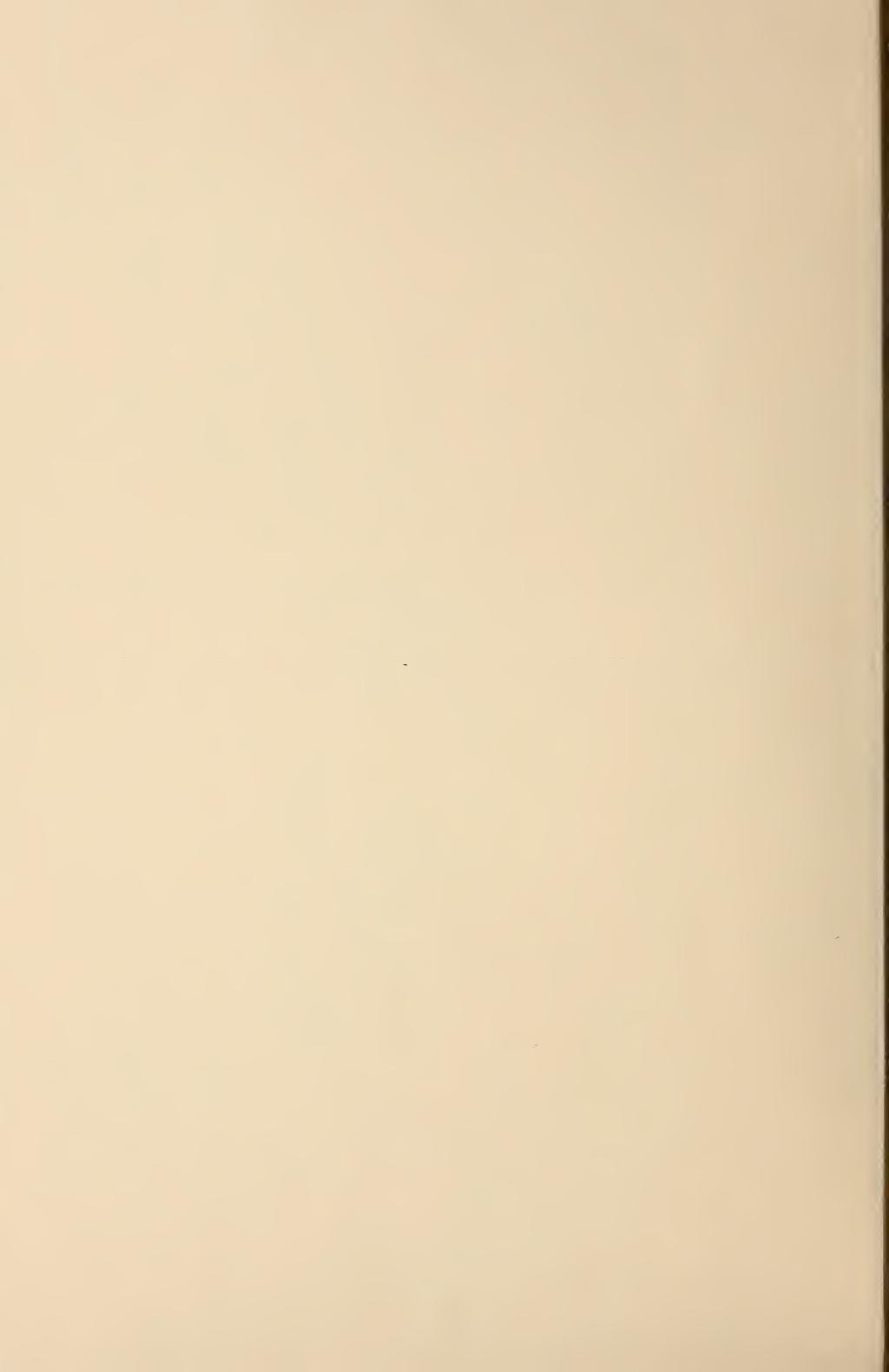
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EASTERN

TERMS (50 CENTS A YEAR.

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omment.

RECENT issue of this paper contains the platform of the National Farmers' Alliance and Industrial Union, adopted last year at St. Louis. Below is given the Alliance platform adopted last month at Ocala, Florida:

1. We demand the abolition of national hanks · we demand that the government shall establish suhtreasuries or depositaries in the several states, which shall loan money direct to the people, at a low rate of interest, not to exceed 2 per ce . per annum, on non-per!shable farm products and also upon real estate. with proper limitations upon the quantity of land and the amount of money. We demand that the amount of the circulating medium be speedily increased to not less than \$50 per

2. We demand that Congress shall pass such laws as shall effectually prevent the dealing in futures in all agricultural and mechanical productions, preserving a stringent system of procedure in trials such as shall secure the prompt conviction of offenders, and the imposition of such penalties as shall secure the most perfect compliance with law.

3. We condemn the silver bill recently passed by Congress, and demand in lieu thereof the free and unlimited coinage of silver.

4. We demand the passage of laws prohibiting the allen ownership of land, and that Congress take prompt action to devise some plan to obtain all lands now owned hy aliens and foreign syndicates, and that all lands now held by railroad and other corporations in excess of such as is actually used and needed hy them he reclaimed by the government and held for actual settlers only.

5. Believing in the doctrine of equal rights to all and special privileges to none, we demand that our national legislation shall he so framed in the future as not to hulld up one industry at the expense of another. further demand a removal of the existing heavy tariff tax from the necessaries of life, that the poor of our land must have. We further demand a just and equitable system of graduated tax on incomes. We helieve that the money of the country should he kept as much as possible in the hauds of the people, and hence we demand that all national and state revenues shall be limited to the necessary expenses of the government, economically and honestly administered.

6. We demand the most rigid, honest and just state and national governmental control and supervision of the means of public communication and transportation, and if this control and supervision does not remove the ahuses now existing, we demand the government ownership of such means of communication aud transportation.

A comparison between these two platforms will show some important changes. The second, third and fourth planks arc unchauged. The one on fractional currency has been omifted. The last plank now favors government control, instead of ownership, of the means of communication and trausportation, a very sensible amendment.

plank. In it the Ocala platform demands the establishment of subtreasury warehouses by the government, for the purpose of holding farm products as security on loans, and also demands government loans on real estate. In this particular the platform is decidedly inconsistent. The fifth plank declares, and rightly, against class legislation; the first plank demands class legistion of the most sweeping character. The true inwardness of the subtreasury scheme is to force up prices on farm products by getting up a gigantic corner on them. Producers are to store up their products in these government warehouses and receive on them treasury notes that shall circulate as lawful money. Being relieved of any immediate necessity for selling them, they can hold their products until the price is high enough to suit them, or by combining they can at any time produce a scarcity in the market by withholding them from sale, and thus force up prices just as high as consumers will stand.

It would hardly be just and equitable for the government to advance loans on farm and not upon merchantable products. The long and short of it is that this subtreasury measure is class legislation pure and simple, the very thing that the Alliance and all other agricultural organizations ought to most vigorously oppose. We do not believe that this measure ever will receive the indorsement of the majority of the organized farmers of this country, or ever become the law of the land.

FEW months ago, when political demagogues of the most unscrupulous sect were busy misrepresenting American manufacturers of farm machinery and striving to array the farmers against them, the editor of the Farmer's Call made a thorough investigation of the farm implement trade, both foreign and domestic. As a result of this careful investigation he says that one fact was revealed with startling certainty: "The large majority of manufacturers of farm machinery could sell to the foreign trade for twenty per cent less than to the home trade, and yet the foreign trade would net them as much; and this is altogether owing to the foreign trade being spot cash."

He describes the different methods of selling to the foreign and home buyers, and clearly shows that it takes twenty per cent to cover the difference between spot-cash and credit sales. The foreign trade is spot cash, and seventy per cent of the home trade in agricultural machinery is on time, the average credit being about one year.

Do the honest purchasers who pay promptly for what they buy realize what a burden the credit system places on them? Do they know that every time they buy four machines they pay for five? That is the effect of the credit system upon which farm machinery is sold. The honest, paying purchasers pay all the expenses of collection, bad debts, interest on the money, etc. Another thing is very clear: It does not pay for the farmer to make a banker of the manufacturer or merchant of whom he buys goods. It may not be practicable to abolish the credit system entirely, but it would be a good deal better for the farmer to pay cash for his farm implements, even if he The most important change is in the first has to borrow the money to do it with. rods per acre,

Let him borrow it of those who are in the business of loaning it. When he buys on time he is indirectly borrowing money, and he has to pay about twenty per cent interest on it. If his credit is at all good, he ought to be able to borrow money for eight per cent of those who are in the business of loaning it. If there is any business at all about him he will see that it is to his advantage to save twelve per cent on the money he invests in farm implemeuts. As to the buyers who do not pay their debts, it is not necessary to waste any sympathy. They deserve none. They get the most benefit of the credit system, when they deserve none of it. They form a class of parasites upon their deserving neighbors.

Upon farmers themselves depends the continuance of a system that works injustice. The manufacturers will naturally adopt what is the easier for themselves. For illustration, the American Harvester Company may have a monopoly of the business of making and selling mowers and binders. It will be within its power to do either a cash or credit business. If it will be better for them to adopt the spot-cash system they will do it. If it will be easier for them to follow the credit system, with its 20-per-cent advance, the company will certainly not undertake the work of reforming the method in vogue in the domestic implement trade.

Through the Alliance, Grange and other organizations the farmers of this country can soon revolutionize the implement trade to their very great advantage, if they only will. Many of them are now asking for financial reform. Reform begins at home. One of the important financial reforms they can accomplish is the abolishment of the evils of the credit system.

AILED to the top-mast of the Rural New Yorker is a flag bearing the motto, "Down with useless fences." That is a very sensible motto, and one that every sensible farmer will adopt.

Let him take the time, some winter evening, and figure the amount of money invested in the fencing on his farm and what it costs annually to keep it in repair. He will probably be surprised. Then let him spend a number of evenings in planning a better system of husbandry that will reduce necessary fences to the minimum. Having formed definite plans, he can gradually rearrange his farm fences so that in the course of two or three years his fields will all be of better shape and larger size.

A little calculation will show how the number of rods of fencing depends on the size and shape of the field. It is less for a square field than for an oblong one of the same size. It is less in proportion to the number of acres contained for a large than for a small field. To illustrate: An oblong ten-acre, field twenty rods wide and eighty rods long has two hundred rods of fencing, twenty rods per acre. A square ten-acre field is forty rods cach way and has one hundred and sixty rods of fencing, sixteen rods per acre. An oblong forty-acre field forty rods wide and one hundred and sixty rods long has four hundred rods of fencing around it, ten rods per acre. A square forty-acre field is eighty rods each way and has three hundred and twenty rods of fencing, eight

A little further calculation will illustrate the difference in cost. Assume that the average cost of good fencing is one dollar per rod. Then the cost of fencing a onehundred-and-sixty-acre farm divided into oblong ten-acre fields of the dimensions given above would be \$3,200. Divided into square forty-acre fields, the cost would be \$1,280. The extremes, of course, illustrate most forcibly the difference in the cost of fencing.

As there is a strong, natural antipathy to taxation, the way to make anything odious and to bring about change or reform is to show it up as a tax. Well, that is what every rod of useless fence is, a needless, burdensome tax. Assuming the average price of good farming land to be \$50 per acre, the cost of fencing it, using the same figures given above, is a tax of from \$8 to \$20 per acre, 16 to 40 per cent, payable every ten, twelve or fifteen years, the life-time of an ordinary fence, leaving the yearly repairs out of consideration. Every single rod of useless fence, even on the most economical system of fencing, is a tax of two per cent or over on each acre. To get rid of this oppr sive tax, "down with the useless fences." Farm fencing should be reduced to he actual necessities of the most profite. system of agriculture economically ... ministered.

The village fence is even worse than the farm fence, comparing cost and benefits. In communities that possess the highest type of civilization, front-yard fences are being "downed" to stay. And in some places, both village and farm fences have been almost entirely abol-

The principle on which most stock laws are made, that every man should be required to fence in his own stock instead of fencing out his neighbor's, is a sound one and aids to down useless fences

response to an urgent demand, Congress provided that the 1890 census should contain the mortgage indebtedness statistics of the whole country. The mortgages for the past decade have been taken from the records, and the census office reports a total of over \$850,000,000. The investigation into the purposes for which mortgages were incurred shows that about three fourths of them were for purchase money or for improvements, and that one tenth was for business uses. The total sum, though an immense one, is not alarming, considering the main causes for which it was assumed.

The total sum is very much less than what was supposed. Two years ago some mortgage statistics were going the rounds of the press that placed the farm mortgage indebtedness of Illinois alone at \$1,000,-000,000. And the farm, not the total mortgages, of Kansas, Illinois, Indiana, Ohio, Iowa, Michigan and Wisconsin were estimated to be over \$4,500,000,000. At that time it was shown that these figures were largely the result of loose guesswork, and our readers were warned that no reliance could be placed on them or on any political arguments based on them. Mortgages are gricvous burdens, but the census returns show that they are not nearly as great as depicted.

L. M. IRBY, a farmer and a leader of farmers in the Alliance movement, has been elected United States Senator from South Carolina.

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Our Larm.

THE NEW ONION CULTURE.

BY JOSEPH.



ROWING THE PLANTS. -The whole tone of a number of inquiries about the way I grow my onion plants for transplanting, shows that the writers are not

with the construction and use of what/gardeners call "cold-frames." There is an evident demand for information on The minute details of the operation, and so I write this-not for the gardener, but for the farmer, the farmer's wife or the farmer's boy, who desires to try the new way of onion growing, but does not know the meaning of the technical terms in use hy gardeners.

What is a cold-frame? A simple box open at the bettom and covered with a socalled "holbed sash." Such a box is shown in Fig. 1. It is placed upon the ground in some well-drained and wellprotected spot; for instance, on the south or south-east side of a building, a high, board fence, a wall or close evergreen hedge. The box, of course, is of the size necessary to accommodate the sash or sashes, if more than one are used. As the ordinary hot-bed sash is three feet by six, consequently the frame outside is six feet from front to rear, and three feet in the other dimension for each sash to be used. The illustration shows a single-sash frame, which will be large enough for the beginner in onion culture, since it could not be advisable nor safe for any one to go into onion growing on a large scale right at the start.

Make the rear of the box one foot high, the front only eight inches high, so that there will be slant enough from rear to front to carry off the rain water. Soil may be banked up around the outside of the frame for the sake of protection from excessive cold. Now fill the box with a mixture of good, turfy loam, sand and fine, old compost to about four inches from the top. Ordinary, rich garden soil, freed from stones and rubbish by sifting, and further enriched with fine compost, well mixed and sifted, will also answer every purpose. The surface is then made fine and smooth with a steel rake, and marked off with straight furrows from front to rear. They are easily drawn across with the handle of the rake or with a little stick, or even with the index finger, and should be about an inch deep and three to four inches apart.

Tho frame is now ready for the sced. An ounce of seed will give a good

and there will be room enough for the proper development of the plants. We may expect ahout 5,000 of them from the one ounce of seed. I have already stated that I prefer the Prizetaker onion to all others for this purpose. Spanish King is another good yellow onion, and Prof. W. J. Green, of Ohio, writes me that the White Victoria is the best of the white sorts for the new method of onion growing. I think White Globe (Southport White Globe) will also prove good. The old standard varieties-the Red Wethersfield and Yellow Danvers-may also be grown under this system, hut I would plant them much closer than I would the ones named before.

Now the question is, what is the right time for sowing seed? This, of course, differs with the locality; but I can give at least the general rule, to plant about six weeks before the ground outdoors can be expected to be in good order for receiving the plants. In the climate of western New York I sow the seed from March 1st to 15th. When ready to sow, scatter the ounce of seed evenly over the entire surface of the bed; then fill in each furrow carefully with the hand or the back of the rake. This operation buries all the seed in the furrow. Afterwards, the soil should he well firmed by patting it with the face of the rake, or by means of a piece of board. Now the sash is put on and the hed left pretty much to itself, except giving air on fine days, and an occasional thorough watering when the soil appears to have become quite dry. Overwatering should be avoided. As the season advances, the sash is removed, at first partially and then entirely, iu order to harden off the plants, which is an important matter. The onion, it should be remembered, is quite a hardy plant, and can stand considerable cold. In about six weeks the plants will be ready for transplanting to the open ground, and appear as shown in Fig. 2.

Now this is all right, so far as the beginner is concerned; but I will have to add a few words for the benefit of the market gardener and all those who may wish to much acquainted grow enions on a larger scale. I am preparing to plant an acre of Prizetakers next spring, and I plant close, so that 130,000 plants will be required. In that case I make the rows in the seed bed only three inches apart, and sow from one and one half to two ounces of seed to the sash. I calculate on fully 9,000 plants to the sash, perhaps 10,000, and consequently have to use about fourteen sashes. I would not advise to crowd the plants still closer. At any rate, we will require about one and one half pounds of good seed to grow an acre of onions in the new way, if we plant for the largest yield on that area.

The old method requires six or eight pounds of seed per acre. The saving of the difference is an advantage of the new method, and although one of the less important ones, is yet worth mentioning, when seed costs \$5 or \$6 a pound.

The plants can be transplanted at almost any stage of growth, from the tiny thing not bigger than a darning-needle, as found

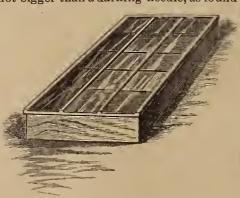


Fig. 1.

three weeks after sowing the seed, to the vigorous and well-rooted plant of pencil size and larger. When of about three sixteenths of an inch in diameter, however, they are of best size for the operation. They are then more easily handled and there will be a smaller percentago of loss than when the plants are smaller. When planting on a large scale, we may need several weeks' timo for the job of transplanting, unless we have a large working force. So if we want the plants all just of the right size, it would be better to sow only a few frames at a time, at intervals of several days, to have the

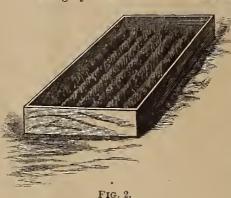
stand of plants in a one-sash frame, not object to sowing in a hot-bed with moderate hottom heat, instead of coldframe, especially if seed is to be sown in February, or if the winter is rather severe. In an emergency, frames covered with waterproof cloth may answer, but glass is hy all odds the best and safest to use.

> Now, as we have the plants, the next thing is to know how to plant them. This I will tell in next issue of this paper.

SUGGESTIONS FROM THE STATIONS.

BY JOSEPH (T. GREINER.)

TOMATOES.—In hulletin XXI. of the Cornell University experiment station (Ithaca, N. Y.), the horticultural division (L. H. Bailey and W. M. Munson) tells of various tomato tests made the past season. The station people find that in our short, western New York seasons it is difficult to secure the large yields of the middle states.



Growers in Maryland and Delaware with little effort harvest a crop which, in ordinary years, we can obtain ouly under the most forceful culture. Thus, every year's experience strengthens the conviction, that in the North tomato plants should he started early and forced rapidly, and set in open ground quite early, even if the weather should happen to be raw and dark. The average yield at station grounds per plant of marketable tomatoes, before frost, was 11 3-10 lbs. in 1890, and 12½ lhs. in 1889. If similar treatment were applied, even in part, to the tomato fields which supply the canneries, greatly increased yields would be sure to follow. This treatment is as follows: Careful selection and hreeding of stock seed from year to year; early sowing; frequent or occasional transplanting, producing stocky plants; rich soil, well prepared and well tilled. If the grower has facilities for forcing the plants rapidly, the first half or the middle of March is a proper time for seed sowing in this lat-

The bulletin states that the yields in New Jersey, Delaware and Maryland fields, even with the longer seasons, by which two or three pickings are gained, are only from eight to sixteen tons. From my own personal observation I know this to be true, hut it should not he so; for it is a very easy thing for people in the states named to raise twenty tons and upwards to the acre. It is simply a question of manure. And here is just where the profit comes in. The fallacy of the old notion that tomatoes are not as productive on rich soil as they are on poorer ground has long been demonstrated. The more manure and the richer the manure, the more tomatoes; that is settled. Highgrade, concentrated manures answer well, and may be cheapest in many cases. An expense of \$20 or \$25 per acre for manure may increase the yield by eight or ten tons. But if rich compost is freely used, especially fish-compost, as is sometimes done near the sea coast, the distance of four by four feet, as mentioned in the of hy the station this season. bulletin for each plant, is much too small. I would set the ordinary canning and market tomatoes, such as Matchless, Ignotum, Perfection, Beauty, etc., not less than five by five feet. The richer the soil the wider apart they should be planted; that is the general rule to be followed.

I have heretofore opposed Prof. Bailey's statement that tomatoes "run out," even with hest culture, and that the average life of a variety is only about ten years. We are now informed, however, that "running out" does not necessarily mean "deterioration," hut only a change of some leading characteristic for hetter or worse. The strongest proof of the fact that varieties are unstable, and soon "run out," is the difficulty of maintaining any varioty true to its type under good culture and careful selection. The plants come in proper succession. I do variety under this treatment is very apt two seasons we have received no return in

to "improve," or depart from its original character.

Experiments made with seedling plants and plants from cuttings, resulted in favor of the former. The seedlings gave the earliest and largest returns. Trimming the plants proved of considerable advantage. The plants were headed back from three to six inches on all the leading shoots, July 28th and August 25th, and all the sprouts from the base of the plants were taken off. In every case there was an important gain in earliness and productiveness. The lahor of trimming is very slight, and it would appear to be profitable.

In regard to varieties, my experience in some cases differ from that of the station people. The Ignotum is named as standing at the head. It is a good tomato, no doubt, but for general purposes, especially for canning, I would be satisfied with the Matchless, which is not yet excelled by anything on the list. Chemin Market (Vaughan) is described as follows: "Of medium size, deep red, somewhat elongated. Resembles Hathaway. Smooth, prolific, uniform in size and shape. Good." Undoubtedly this is the same as the Chemin, which Mr. Burpee had sent me for trial. It is a fine-looking variety, growing in large clusters of seven or eight specimens each. The great fault of this novelty is want of solidity, as the fruit has four large seed cavities, while the most solid sorts have numerous small seed cavities.

Table Queen (Henderson), which the bulletin mentions as "Mikado with ordinary foliage; fruits average, a little larger, and are a little more irregular than Mikado," I find to be entirely distinct and promising. Fruit resembles Mikado in color, but not otherwise; flattish, of large size, very heavy and solid; plant dwarfish, hut very productive. Ruby Queen (Childs) is pronounced "evidently the same as Table Queen of Henderson." I think they are different in all leading characteristics except color of fruit, which is pink (or purple), and not especially bright or attractive. Ruhy Queen seems to be a new type of tomatoes, which also appears in two other sorts, perhaps only under two other names; namely, Mansfield Tree (Mills) and Annie Dine (Wilson). At any rate, the three novelties resemble each other very closely. Here we have the most rampant growers with which I am acquainted. Fruit is of very largest size, unexcelled (if indeed equalled) in solidity and productiveness. Some of the specimens, however, show tendency to irregularity, and further improvement in this direction will he desirable. The green fruit of these three sorts, as well as of Table Queen, usually show dark stripes radiating from the apex towards the stem. Early Ruby (Henderson) is of medium size, bright red, early, productive. I consider this a very promising sort for early market. It is much better than King of the Earlies, or any of those first-early sorts. and it seems to be as early. If so, King of the Earlies will have to go, as it is one of the poorest of our tomatoes in quality, and its only redeeming feature was its extreme earliness. A new variety is also announced as being in the hands of the station—the Ithaca. "Medium in size, about three inches in diameter, nearly spherical, 'very smooth and remarkably uniform in size; color, light cherry. A new variety; very promising among table tomatoes; apparently valuable for forcing." No seeds are yet to be disposed

In 1889 I had imagined to be able to see fine results from the use of nitrate of soda applied at the time the plants were put in open ground. The past scason I could not see any such effect from the use of the nitrate. The trials on the station grounds this same season also have seemed to show that neither nitrate of soda nor muriate of potash alone are profitable tomato manures upon thin soils.

GRAIN RATIONS FOR COWS AT PASTURE.-The agricultural division of the same experiment station (Cornell), reports in hulletin XXII. the results of trials made for the purpose of discovering whether there is any profit, in milk and butter, in feeding regular grain rations to cows kept on pasture during the period from May 25th to September 27th. The conclusion given by Prof. I. P. Roberts and Henry H. Wing is as follows: "In two trials in

milk and butter from feeding a grain ration to cows on good pasture. In one trial with cows soiled on fresh grass we have received an increased milk and butter production, and in saving of grass consumed, barely enough to pay for the cost of the grain ration added.

In neither case has any allowance been made for increased value of manure, when grain is fed, which would be considerable in amount, but exceedingly difficult to estimate with exactness. We are still of the opinion that several repetitions of this experiment will be needed before the matter can be considered conclusively settled."

SUGGESTIONS ON HANDLING COTTON.

I met an intelligent cotton buyer the other day, who, in the course of our conversation, made some remarks about our great staple which I consider well worth publishing. They were in substance as

The manufacture of cotton goods in the South is slowly and steadily increasing; and the time will probably come when the Southern people will make all the heavier grades of cotton consumed in the South. It is hardly to be hoped that the finer fabrics will ever be successfully manufactured here. A humid atmosphere, such as prevails iu England and the Eastern states, is necessary to very fine spinning. The atmosphere of the South is too dry for such spinning. It will pay the South well to manufacture heavy cottou goods, beyond doubt. Indeed, that has been fully demonstrated by factories uow in operation.

I will tell you, though, what will pay the Southern cotton raiser better than almost anything he can do. It is a more careful handling of the staple. Great loss is sustained every year by our cotton growers on account of damage to the fibre. In the first place, many are tardy in picking their crop, thereby entailing loss from rain and wind. Much cotton is beaten out on the ground, becoming dirty and discolored, thus reducing its value. Much trash is necessarily gathered when cotton is picked late. In many instances the cotton is piled upon the ground as it is picked, where it often receives one or two rains, greatly to its injury. It pays to have cotton picked early, picked clean and put under a good shelter as soon as picked. The planter had better plant less cotton and gather it in better condition than is often done at present.

Another great loss is sustained in the ginning of cotton. Most of it is ginned by steam power gins, run at too great a rate of speed. The fibres are cut short and napped instead of being left long and straight. This, of course, lowers the price of the cotton materially.

Many valuable improvements have been made of late years in cotton ginning machinery, but they have been made more with a view to the rapid handling of the staple than to an improvement of its quality. Yet some of these inventions really do much in the way of cleaning the cotton also. The bulk of the sand is sifted out in the latest processes of handling seed cotton; but, of course, its discoloration from raiu is not removed.

The greatest reforms needed just now are cleaner picking, better shelter and slower ginning. The two first can be accomplished by the planter himself; but the manner of ginning is, of course, at the discretion of the gin owner largely. Where the planter owns a ginning outfit, however, he can control the speed at which it is run. Even the public gins can, by the pressure of public demand, be made to do better work also. Even the difference of one eighth of a cent a pound on cotton amounts to about five million dollars to the South. With proper care in handling and ginning the crop, twice that sum could be saved at least.

DICK NAYLOR.

EARLY POTATOES FOR MARKET.

Joseph's article on how to raise early potatoes for market, in October numbers of FARM AND FIRESIDE, is good, and I will tell how I met with great success in producing good-sized, merchantable potatoes inside of ten weeks from planting. To begin, the plants require three very essential things to succeed; namely, carefulness, good, sound seed of an early kind, which he knows will suit his locality and very rich ground. I used the Charles

Downing, sprouted good, medium-sized tubers until the sprouts measured six or eight inches long, pulled off all but two sprouts to each whole tuber (here is where carefulness is required), laid them on trays or in flat baskets, and planted them in trenches fifteen inches apart. The trenches were three feet apart, and covered or filled nearly level; then I gave them a liberal dressing of my own homemade potato fertilizer, rich in potash and phosphate. I filled the trench up level with the spronts barely sticking out. If the weather is warm the tops will show green in a very few days. Then cultivate frequently; in fact a person can't do to much work with a cultivator run shal-

Keep your ground level as much as possible; quit work as soon as bloom buds begin to show. I generally use ground which has been heavily manured the year previous and produced a crop of cabbages. This year I planted on April 4th; on April 19th it was cold enough to form ice, but the wind was high and the ground dry on top and did no damage to the potatoes. By the middle of June my crop was ready for market, not ripe, but as ripe as southern potatoes shipped here, usually are. Again, I say that the main things are very rich, warm land, good sprouted seed, and not to leave more than two sprouts and not break them off in planting.

FEEDING FOR MILK AND BUTTER.

Please give best plan to feed a Jersey cow through the winter season for milk and butter. Can get clover hay at \$5 per ton; timothy hay, \$7; corn and oats ground together at \$1.40 per 100 pounds; oil meal 11/2 cents per pound; bran, \$1 per 100 pounds; corn fodder, \$3 per common load. Would it be best to cut hay and steam it before feeding, and put the chop feed on it? Any suggestions will no doubt be well appreciated by many of your readers, and especially by

Of the articles named, use clover hay, corn and oats ground, oil meal and wheat bran. Cut the hay, moisten it by sprinkling water over it. Then pour the mixed meals over it and stir until the whole is thoroughly mixed. Feed this mixture twice a day morning and night. Besides this, put in the rack as much hay as the cow will eat up clean between meals. Occasionally, it is well to substitute either timothy hay or good corn fodder in the rack, for a couple of days. The amount of hay and grain will need to vary with individual cows. The safe rule is to increase the amount as long as the yield of milk or butter increases. When the yield becomes stationary, decrease the amount of food a pound or so.

The proportion of hay and grains we have found most satisfactory is: Hay, 12 pounds; corn meal, 3 pounds; oatmeal, 3 pounds; oil meal, 2 pounds; bran, 2 pounds; total, 22 pounds. This is for a Jersey cow weighing about 850 pounds.

The cow should be kept thoroughly comfortable at all times, and it will pay to curry or brush her off every morning. If silage can be purchased, about 25 pounds a day may be used with profit from December until April. When silage is used, the meals may be fed dry and the out hav need not be moistened. - Jersen Bulletin.

NEW WAY TO PLANT WHEAT.

Colonel Wirt M. Hughes returned yesterday morning from north-western Kansas, where he spent a week with his parents. "The farmers in that section." said he, "are trying a new plan of raising wheat, and if it proves successful, the grassy prairies on those extensive plains will soon be converted into wheat fields. The scheme is to plant wheat on the prairie without breaking the soil with plows. It is accomplished by means of traction engines, attached to which are little subsoil plows and a wheat drill. There are fifteen little shovels or subsoil plows attached to each engine, and these serve to tear the sod enough to allow the drill to plant the seed.

"The prairies in that section are covered with buffalo grass and it never grows very high, so if the wheat crop ever matures it can be reaped easily. The shade of the wheat will also kill the grass, so it is claimed by the farmers, so that the second crop will be more easily put in than the

on a very small scale last fall reaped a good crop this year, and this fall he intended planting four sections of prairie with wheat in this manner. Aside from this there are other farmers who are trying the same scheme. There was more wheat planted in western Kansas this fall than ever before."-K. C. Times.

THE WINTER JACK-KNIFE.

The jack-knife stands foremost among our good and useful institutions. It is applied to and relied upon in all scasons for sundry helps and lifts that piece out and

In winter, however, in the long evenings, ou stormy days, between "chores," when the wood-pile and logging-camp are abandoned, the jack-knife play is at its height. Men and boys like to whittle, to make something—a litter at least—even if chips and shavings for the morning's fire be the only product; but greater satisfaction comes when the keen blade, the skillful hand and the accurate eye unite to form things which are immediately use-

Although the farmer is benefited by modern inventions, yet some old devices in the interest of economy and continued usefulness will never give way to the new. The homely, home-made will remain. Among these are the wooden latch, catch and button on gates and doors, indoors and out, in and around the farm buildings.

Iron is chilling to the touch in winter, and when full of frost, brittle and easily broken, for doors and gates around the barn and sheds are often subjected to hard usage. All gates leading to sheep, calf or even pig-pens, in stalls for all animals, should have wooden latches or bars.

The inmates of these pens and stalls may "lose flesh" on frosty mornings if they bring their noses into contact with the iron latches or handles. The oldfashioned, wooden latch, with raw-hide lift, fills the office better and longer than iron. The latch gives way to the sliding bar when the door will permit. The broad, wooden button, with screw through it, often accompanies the latch, and then if rubbing noses lift the latch or slide the bar, the button keeps the door or gate

During the winter on many farms, the jack-knife turns out these door fixtures and many other things from good oak, hickory or elm. If elm be obtainable, it is the best for many purposes, for it is tough and elastic. Farmers and others are loth to part with elm, but if a tree must go, let every piece of trunk or branch large enough, cut into convenient lengths, be saved.

No wood makes a better axe-helve than elm, and often the natural run and crook of the wood will have the exact shape of the helve. For handles for gates, hatchets, hammers and many other tools, elm is the best, and after splitting, only the good jack-knife and sand-paper are needed to make it ready for use.

The jack-knife has a busy time before it, and every blade is ready for the work. It makes, or helps to make, pins or pegs a good half bushel, in size from that of a pencil to that of a ship-pin, the sizes corresponding to those of the auger-bits. Iu and fewer still can afford the time required the busy season, if a plow-beam be cracked, to note the character and results of the or a wagon-tongue be sprung, these pins mend, temporarily at least, and bridge disaster and break-down.

There cannot be too many pegs around the barn, in the horse and cow stables, on which to hang harness and many things, a pcg for every collar and bridle, another for every saddle and breeching, pegs for tools, for the lantern in different parts of the barn, pegs everywhere for many purposes. The "peg system" is a great economizer of time and money. A good jack-knife, the combination jack and pruning-knife is a mainstay everywhere.

GEO. APPLETON.

WHY BOYS LEAVE THE FARM.

Farmers often have themselves to blame for the dislike their sons take to a business in which they find only the rough and hard side of life. Farm work is not so hard and disagreeable as it used to be before the introduction of much labor-saving machinery that now lightens it. Still, though less disagreeable, the boys do not like to have its roughest and worst features put on them. Nor will it make it first. One farmer who tried this scheme any better for the father, who now shirks

whatever he dislikes, to tell his sons how much harder he had to work than they when he was a boy. Farm work is easier than it used to be, and the boys should be the first ones on the farm to find this out practically. Then fewer of them would be led from the farm by the attractious of

So far as possible, boys ought to have a personal and pecuniary interest in everything they do, and the girls also, for that matter. Their labor legally belongs to the parent until they become of age, but he is indeed a strange father who keeps his sons or daughters at work without pay merely to save the wages of hired help. This working without pecuniary interest iu what one is doing is too much like

Just as soon as the pressure is removed and the child becomes legally its own master, all restraint is thrown aside. Every young person should have some chance to work for himself on some corner of the farm, and whatever he thus earns should be his, to be saved or spent under parental supervision.

In this way the habit of earning money and the knowledge of what it costs to procure it, as well as the best means of using it, may be learned. The farm has undoubtedly greater opportunities for teaching both boys and girls this practical knowledge of money and its value than any other business in the city can possibly enjoy. A great part of the advantage of living in the country, for bringing up a family of children, will be lost unless this opportunity is utilized as much as possible. -American Cultivator.

FARMER'S PROGRESS.

In this day of organization among farmers, if we hope for good and beneficial results we must go at it in a business way. The farmer's gathering must be an educational factor that will equip him, making him a better farmer, better citizen, better business man and a hustler who has been educated by contact with his fellow farmer and the world, which will give him knowledge and a breadth of understanding that will make him proud of his calling and not a foot ball for politicians. Equip him with these capabilities and practicalities and make him an educated man of the world, build him up into a thinker instead of a follower of vagaries and non-essentials and you will have so fitted and prepared him that he will lead and have a following too; not because he is a farmer, but because he respects his business and is level headed and has extended his horizon; and this alone will place him side by side with business and professional men in legislative halls and places of trust, for merit in him will be recognized as well as in those of other vocations .- W. H. Morrison, Superintendent of Wisconsin Farmer's Institutes.

THE EXPERIMENT STATION RECORD.

The agricultural experiment stations of the country, over fifty in number, issue annually some three hundred bulletins and reports of from four to two hundred and fifty pages each. Very few people have access to all of these publications, experiments they describe. Those who find it desirable to keep pace with the progress of agricultural experimentation will find a condensed record of all station work in the Experiment Station Record, issued by the United States Department of Agriculture, Washington, D. C.

Poisoned by Scrofula

Is the sad story of many lives made miserable through no fault of their own. Scrofula is especially a hereditary disease, and for this simple reason: Arising from impure and iusufficient blood, the disease locates itself in the lymphatics, which are composed of white tissues; there is a period of feetal life when the whole hody conis especially susceptible to this dreadful disease. But there is a remedy for scrofula. It is Hood's Sarsaparilla, which by its powerful effect upon the blood, expels every trace of the disease and gives to the vital fluid the quality and color of health.

Hood's Sarsaparilla

Sold by all druggists. \$1; six for S5. Prepared only by C. I. HOOD & CO., Apothecaries, Lowell, Mass.

100 Doses One Dollar

Gur Larm.

NOTES FROM THE HOME GARDEN.



ARLY POTATOES. -My article in the issue of October 1st, on growing early potatoes for market, has brought me several inquiries for prices for Early Ohios for

seed. I wish to say

that I grow no potatoes for seed except for my own use. Whenever I have potatoes to sell they go to market or to neighbors for any use they may wish to put them to. If I were in the business of growing seed potatoes for sale, this mere fact would put a cloud of suspicion over my advice and writings on potato growing. This I wish to avoid. On the other hand, I think my friends will be wise to secure their supply of seed as soon as possible, for there is not a particle of doubt that potatoes will be scarce and dear next spring. If you want to try the Early Ohio next year, look for the advertisements of seed-potato growers in the issues of FARM AND FIRE-SIDE for February, March and April, or in those of other agricultural papers for the same period. Then write to the parties, asking for prices, etc., and secure your stock without delay

MANURE.-I also have been a little too tardy in ordering my supply of manure from the stock-yards. The best of the manure(or rather, the kind I want and ordered; namely, fine compost, to be applied on the surface after plowing and to be worked into the soil only by means of the disk harrow, or pulverizer,) is probably frozen solid, and I will have to wait for it to thaw out. This mannre costs me, delivered at our station here, \$16 per car, and I believe I am getting (whenever I do get it) a most excellent and cheap manure. There may be twenty tons to the carload. Even if the stuff averages only eight pounds of nitrogen, four pounds of phosphoric acid and eight pounds of potash to the ton, I get in the carload not less than \$36 worth pant food. As long as I can strike such a bargain, I see no necessity of bnying much concentrated fertilizer, in which the plant foods cost me not less than twice, and probably three times as much as I can get them for in the stock-yard manure. This opportunity of buying manure cheap is hardly appreciated by the farmers in this vicinity as much as it deserves.

FALL PLOWING .- Over-confidence in weather prospects is never justified. For some years our winters have not set in in earnest until about Christmas, and I was so confidently expecting a repetition of such weather this year, that I have been much less in a hurry about my fall plowing and other fall preparations than it now appears was prudent. The vegetable garden, and especially the onion patch, should be plowed before winter. At least, that is what I like to have done, but cold weather came just in the nick of time to prevent the completion of the job. I only hope now we will have an open spell by and by, and a chance to finish my plowing. One of the chief objects of this plowing is tho thorough surface drainage which can be secured by this laying off of the ground in narrow beds, with deep furrows between. This makes the soil dry out earlier in spring, and brings it in condition for working and planting a week or two before it would be in this condition without fall plowing.

Raising Onion Sets .- Mrs. Anna E. L., of Channte, Kansas, would like to grow a crop of onions for bunching, etc., from sets. The trouble is, our correspondent does not know where to get the sets. This should not be a difficult thing. Every scedsman advertises and sells onion sets; local dealers almost everywhere keep them in store. Prices, of course, vary in different seasous and different localities, just as with other garden crops. The yellow sets-usually Yellow Dutch or Strassburg—are best for general crops. Suppose, however, that sets cannot be conveniently had, or not as cheaply as desired. In such case I would grow bunch onions in my favorite way of sowing seed in frames in February, and transplanting the seedlings, when of pencil thickness, to the open ground. Under good management, and with proper selection of vari-

bunching and market as early as from

Orchard and Small Fruits.

CONDUCTED BY SAMUEL B. GREEN.

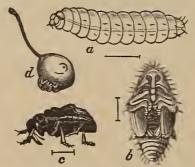
FIGHTING THE PLUM CURCULIO.

BY PROF. A. J. COOK.

BULLETIN NO. 66, MICHIGAN AGRICULTURAL COLLEGE.

The natural history of the plum curculio (Fig. c) is well known. The little weevil is hardly more than two tenths of an inch long. It is rough, with elevated, longitudinal lines, two of which, on the middle of the back, one on each side, are very prominent. The color is brown, dotted or lined with white and beaded with black. The two large humps are black, and rest on a black quadrangular spot. The beak is about the length of the head and prothorax and is bent under and back; the legs are brown, specked and ringed with white; the femur or main joint of the legs is much thickened.

The curculio commences to visit the trees late in May, in central Michigan, or at just the time the little, dried-up circle -the calix-is falling from the young fruit. By jarring the trees I have shown repeatedly that the curculio does not visit them at an earlier date. The insect now commences to feed on the leaves, and the female to lay her eggs on the fruit. The eggs (Fig d) are always laid within a crescent, cut by the curculio, in the fruit. At the base of a little puncture within this crescent the egg is easily found. The insects continue to lay eggs till the first of July, by which time the beetles from the first-laid eggs begin to come forth. So that there is no time in the year when the beetles may not be found. During June, at time of egg-laying, the beetles often spend the day, especially early in June. when the weather is cold, concealed under clod or chips beneath the tree. Towards nightfall they seek the fruit, and may



THE PLUM CURCULIO.

walk up the trunk of the tree, or may fly from the ground to the tree. I have seen them going both ways.

During this egg-laying season the beetles feed on both fruit and foliage. It is generally true that imagos, or mature insects that are several days or weeks laying their eggs, take no little food. We see the curculio is no exception; the eggs are probably developing all through this feeding season.

Whenever the weevil or the limb on which it rests is jarred, the curculio draws up its legs and falls from the tree. This habit would of course be very valuable to the insect, as it would save it from hungry birds. It is very easy to see how, through the law of natural selection, this habit might have been formed

As the eggs hatch, the footless grubs (Fig. a) pierce to the center of the fruit -plum, apricot, peach, cherry, apple or pear-where they feed and grow for about three weeks, when they leave the fruit, enter the earth to pupate (Fig. b). In a few days-about a week-the mature bectles come forth and await the following spring, which will furnish in the fruit of plums, cherries, peaches and apples a nidus for its eggs. Generally, the curculio do very little harm after July 1st. I think they never lay eggs to any extent after that date. They may, and certainly do at times, pierco the plums or apples even after this date, causing the former to rot, and the latter to become dwarfed and misshapen.

FIGHTING THE INSECT.

falling to the ground and a general timidity, gives us another method of combatting this enemy. Thus it is often found that by keeping a large flock of poultry among the trees, or even many hogs or sheep, a full crop of fruit can be secured

and Silverskin, the crop will be ready for eaten up, trodden on or frightened away. I know of farmers who have in this way secured full crops of plums with almost no exception; while neighbors have secured no plums at all. Often a tree close by a door or path bears heavily each year, while others not thus situated suffer severely. Here the insects are probably frightened away.

> PLANTING PLUM TREES .-- As before stated, the pear, apple, cherry and often the peach can be secured against attack by planting numerous plum trees among the others. The curculios prefer the plums, and attack these in preference to the other fruit. I have seen cherries and apples saved in this way repeatedly, while orchards not far removed, with no plum trees, suffered serious injury. As our wild fruit trees are more and more cut down, this method will be more and more

> THE JARRING METHOD. - With this method we can let the curculio work till the fruit is sufficiently thinned, when we can proceed to jar, and surely-no doubt in this method-save our fruit beautiful and sound. As we have seen, the curculio often spends the day on the ground beneath the tree. Jarring, then, must be done either late in the evening or very early in the morning-as late or as early as we can see to work. If in the evening, the early morning nap is not eut short, and the dew is not so troublesome. As we have seen, the time to jar is from the time the calyx falls from the tree-about May 20th, in central Michigan-till the first brood of weevils are all gone—about July 1st at this place. In rare cases it may be well to jar later if the punctures of the plums by the second brood are threatening, else the plums may rot because of such punctures. The number of times required to jar will vary; often it will not exceed ten to fifteen for the entire season. If, upon jarring, we find we get only one or two, or better, no specimens, we can then safely omit a day, and if the next jarring is equally fruitless, we may omit two days. If we jar each year, and gather and destroy the fallen fruit as soon as it falls, the work will, I think, be less and less each successive year.

> The method of jarring is, in short, to place a sheet under the tree and give the tree, or in case it is quite large, each branch, a quick, sharp blow. The insects fall to the sheet and are easily gathered and crushed. The sheet may be mounted on one or two wheels like a wheelbarrow, in case of large orchards. The frame hôlding the sheet may be so made as to give the form of an inverted umbrella, and a narrow opening opposite the handles will permit the center of the sheet to reach the trunk of the tree. A cheaper, simpler and more common arrangement is to have two sheets on light, rectangular frames, which, when brought side by side, will form a square large enough to catch anything that may fall from a tree under which the sheet is placed. If each frame has a square notch in the center of one side they may be brought close together about the trunk of the tree, so that the sheets will surely catch whatever may fall. With two men to carry these frames and a third to do the jarring, the work proceeds with great speed. Less than a minute is required per tree. In case one has only a few trees and no help, the sheet may be square and slitted from the middle of one side to the center. Opposite this side it is tacked to a light, slender piece of wood, and opposite this it is tacked to two similar strips, each one half the length of the side. This makes it easy to carry the sheet, to place it entirely around the tree and to roll it up in case we wish to set it away in barn or shed. Of course, the sheet should always be large enough to catch all that falls from the trees. The mallet with which we strike the

tree or limb should be well padded and carefully used, so as not to wound the tree, or may be iron or wood unpadded, in which case a bolt or spike is driven into the tree to receive the blow. Sometimes a limb may be sawed off to receive the CHICKENS AND STOCK.—The habit of blow. I have used the padded mallet successfully for years with no injury to the trees. I find that I can fell all the beetles to the sheet with such a mallet. Unless we are very careful, however, in the use of the padded mallet, we may do serious damage to the trees. When two carry the eties, such as Yellow Dutch, Early Red each year. In this case the insects are sheet and a third party uses the mallet,

we may jar several trees before we stop to catch and crush the insects.

It is usually cool at the early or late hour, and the insects are rather sluggish and will generally remain motionless for some minutes. If one uses a sheet like the last described above, it is perhaps best to kill the insects each time after jarring. In case of the wheel-sheet, there is sometimes a box placed at the center and the inclined sheet makes it possible to shake the beetles from the sheet into this box. I am not sure but this is better in theory than in actual practice. The cnrculio may be brushed into a vessel containing kerosene, or crushed between the thumb and finger.

The expense of jarring will, of course, depend upon the excellence of the apparatus and upon the skill and quickness of the operators. Our largest and most successful plum growers in Michigan estimate the expense at about ten cents per tree. I inquired of several of our best pomologists and the estimates run from five to fifteen cents per tree per season. Surely, this is not an extravagant amount.

In conclusion, let me say that I believe it would pay all our fruit growers to set plum trees thickly among the other fruit trees of the orchard and then to fight this insect as described above. This will not only secure a fine and very profitable crop of this luscious fruit, but will, at the same time, tend to protect the other fruits from this scourge of the careless orchardist,

with no extra expense.

INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

Apple-Root Aphis.—B. H., Mammoth Spring, Ark. The knots on the roots are made by the apple tree root-louse. I have lately bad cause several times to call attention to this insect. It is my opinion that throughout Missouri and Arkansas more orcbards are destroyed by this pest than any other. The borer can be seen and so can most other pests, but because this insect is out of sight, on the roots, which are seriously attacked by no other insect, it is very seldom suspected. Then, again, it is very small, and a casual observer will pass it by and not notice it. There can be no doubt in the minds of those knowing the facts that there are thousands of apple trees set out each spring whose roots are infested at the time of setting. If the trees are properly cleansed, as recommended in these columns lately, before planting, there would be but little chance of their again being attacked. Some unscrippulous or ignorant nurserymen have been known to sell trees at reduced prices that were stunted by this insect. Such trees have the appearance of having their roots nouldy, but the apparent monld consists of innumerable small lice, and such trees are high at any price, unless the lice are first destroyed, after which they may make good trees.

Currant Tree.—E. B., Seybert, Ind., writes:

are first destroyed, after which they may make good trees.

Currant Tree.—E. B., Seybert, Ind., writes: "I would like to ask you a question about a currant tree. It is said to grow eight or nine feet high. There was an agent through bere selling them, and he claims that the tree is patented by a man in New York state."

REPLY:—There is no such tree currant as that represented by your tree agent, and you may set him down as a man to "steer clear of." If any one should discover such a novelty as he represents this currant to be, it would be known all over the country in a short time, and the orders by mail could not be filled fast enough. You would not bave to learn of the thing first through an agent, but it would be hailed with delight by all the people. There are what are called tree currants, but they in no way differ from the ordinary currant, and any currant may be pruned into the tree form. The way it is done is by rubbing off all the lower buds from the cuttings, leaving only the two upper buds and allowing only one of these to grow. By this means the cutting sends up a straight shoot, whose lower buds are rubbed off, thus giving it a tree form. Such form of pruning, while very pretty, is bad, because the borer will probably get into the stem, after which the plant will die, as it cannot sucker like currauts grown witbout rubbing off the buds.

Best Varieties of Apples.—E. E., Orange-

like currauts grown witbout rubbing off the buds.

Best Varieties of Apples.—E. E., Orangeville, Ind., writes: "What are the best varieties of apples to plant for hogs in this section—southern Indiana? I want to set about one hundred trees on a limestone hillside with an eastern exposure. Please give the best varieties of winter sweet apples for this section."

REPLY:—I do not know of auy variety especially adapted for feeding hogs, but think the best plan would be to plant your trees with the purpose of taking the best of care of them and selling all the first-class fruit and keeping all the poor fruit for the hogs. If a grower would always follow the plan of planting the best kinds, giving the best of care, and of marketing only the best, he would soon have for bis fruit a very enviable reputation. Any of the first-class winter apples make good food for man or beast, but do not contain much of the muscle or fat-forming materials, though they are invaluable aids to healtb. Some of the rather acid-tasting apples may and do contain more sugar than some that are very sweet, and they only appear to have less sugar because they contain more acid than the sweet apples and the acid covers up the sugar. I would recommend you to plant Rome Beauty, Ben Davis, Smith's Cider, Wine Sap, and for a winter sweet apple, Talman Sweet.

DEAFNESS CAN'T BE CURED

by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Enstachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, Deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that we cannot cure by taking Hall's Catarrh Cure, Send for circulars, free.

F. J. CHENEY & CO., Toledo, O. Sold by druggists, 75 cents.

Our Farm.

HYBRIDITY IN FRUITS.

A hybrid is a sexual cross between individuals of distinct species, a mongrel, as hetween the cherry and plum. It has generally been considered that the two parents of a hybrid must belong to the same family and genus; but later developments in the science seem to point towards an endless limit to hybridlty, from forced unions between the species of genera widely distinct.

We have true hybrids between such widely different plants as wheat and rye, raspberry and strawberry, etc., and though these belong to the same families, they are certainly far enough apart, naturally, to show what may be done.

In flowers and plants greater wonders in hybridity have developed than in fruits, simply because the plants are more perfectly under the control of the operator, and from greater inducements and hecause results were more quickly obtainable. The manipulation of tree fruits in this line is long and tedious before results are obtained. When a hybrid is obtained between two fruits, it may prove barren, producing no seeds, and in that way ending our experiment.

What to expect from a hybrid race, as, for instance, between a Chickasaw plum and a common peach, is a problem that most persons well up in horticulture may think as yet unsolved. But for one, I feel confident that we have had numerous such hybrids in fruit every year for the last twenty years. I know that many will dispute the fact that Hale's Karly, Alexander, Amsden, June, Garfield and many others of our very early peaches are peach-plum hybrids between the peach and Chickasaw plum; and that the Wild Goose, Blackman and many others are plum-peach hybrids between the same species. Yet one who has closely studied them, and has also studied the result of such sexual crosses between species, can find abundant proof that all of these fruits are true hybrids between these two species.

Before Hale's Early came upon the stage, the earliest known peach ripened August 20th, when the Hale ripened July 20th on its advent. The leaves of the Hale show unmistakble Chickasaw plumleaf characteristics, and the stone also. Its leaves are nearly free from the parasitic fungiof the peach leaf. Its fruit is exceedingly liable to those peculiar to the plum, especially the one known as rotting of the fruit; and it seemed to be the means by which this dread disease spread to other varieties of peaches which had never rotted before. It was disseminated nearly everywhere as soon as the Hale was introduced, and fruited "peach-rot" prevailed. And several more obscure points could be mentioned, tending to prove it a hybrid.

Next comes the Alexander, so-called peach, which ripened its fruit nearly a month in advance of the Hale. If I were guessing, I would guess that the Alexander and all that family of very early peaches are hybrids between a peach, in all probability Hale's Early and the Wild Goose or some other very early Chicka saw plum, the peach flower that matured the \$20 to \$75. fruit or seed from which the trees grew having been fertilized by pollen from the Wild Goose or other plum. Why? What proofs have we of such hybridity?

First, earliness of ripening, the fruit ripening to a day with the supposed plum parent. Its foliage resembles the Chickasaw plum leaf, and so far as I have observed, escaping entirely the peculiar leaf diseases of the peach. The shell of the seed of all these peaches is lighter in color than those of any other red peach, notnearly so much corrugated, or nearly smooth; and the seed itself and its outer envelope are more like those of

But the most important point is thatthe cellular structure of the frait pulp is very different from that of the peach, and almost exactly like that of the plum; alsoits ripening processes and decay. In fact, they have the exact characteristics that an expert in hybridity would ex pect to find in trees known to be true hyb rids between these two species.

Further, I have long considered the Wild Goose plum a plum hy brid, or originating from a seed grown on a plum tree and fertilized with the pollen; of a peach per acre), besides the great amount of saving

flower, with the proof about the same as given in the foregoing case.

Further, I consider the Mariana plum a plum-cherry hybrid between a Myrobolan plum and the Early Richmond cherry. Of this there is a reasonable amount of proof to be found in the variety itself and the surroundings of its origin. I believed all of these to be facts, from my own experiments and observations, before coming here and seeing the many positively known to be hybrids, grown by Luther Burbank, of Santa Rosa, this county, and talking over hybridity with

I mention these here, and not those of Mr. Burbank's, for with the above-named fruits many of my readers are quite familiar, and from them can get a good idea of what we may expect from hybrids between our different species of fruits.

I wrote very nearly these same words (may I call them facts?) four years ago, and one of our leading horticultural papers would not publish them, and the secretary of a horticultural society threw them out, I suppose as the theories of a crank. And all of this thirty years after there were well known hybrids between species of grapes as distinct from each other as the peach from the plum, fuchias and a thousand other annuals and florists' flowers and plants.

And now, to-day, the question among advanced experimenters in hybridity is not what two forms will hybridize with proper manipulation, but which will not, D. B. WIER. by forced pollenation.

[To be continued.]

EXTRACTS FROM CORRESPONDENCE.

FROM NORTH CAROLINA .- Buncombe county ls one of the most prosperous in the state. The county and its county seat, Asheville, have been on a boom for some years. Property near Asheville that will do for building purposes is bringing from \$100 to \$1,000 per acre. Asheville is the center of the western part of the state. It has one of the finest hotels in the South. It has six or eight other hotels and electric street railways and electric and gas lights, cotton, furniture, ice and tobacco factories. This part of the state is mountainous and noted for its healthfulness, cool summers and warm winters. The mercury hardly ever gets to 90° in the snmmer or to zero in winter. Good, cold, freestone springwater is plentiful. We also have some mineral waters scattered through the county. The financial condition of the county is good. All claims are paid in full when due. We have a great many boarders in winter and summer, from the North in winter and the South in summer. George W. Vanderbilt has bought about six thousand acres of land nine miles west of here, and is working two or three hundred hands on it. He expects to spend one million dollars in improving it. The rock foundation for his residence will cost about four hundred thousand dollars. He has paid from \$25 to \$1,000 per acre for his laud. We have a beautiful valley with the Swannanoa river running through, and mountain peaks of varying heights on all sides. We can grow all kinds of grains, fruits and vegetables, except those of extreme southern and northern climates. Apples, cabbages and Irish potatoes grow well. All lands are not very rich, but can be brought np to produce extra heavy crops. They can be bought from \$3 to \$100 per acre, according to location. Corn is worth 50 to 60 cents per bushel: chickens, from 10 to 25 cents per pound; butter, from 15 to 35 cents per pound; apples, from 50 to \$1 per bushel; Irlsh potatoes, 40 to 75 cents per bushel; hay, from 50 cents to \$1 per hundred; cows, from

Cooper Station, N. C.

FROM CALIFORNIA .- San Jose is the garden spot of America. I had to smile at an article about a farmer in New Jersey, who got such a big price for his peach crop and how he had to guard the same with shotguns. Why, if those poor, benighted people back East would come out to our beautiful Santa Clara valley, they could get all they want without the dangers of a shotgun. I know places here of only one half acre, on which is a house and outsheds and nice flower garden, making \$300 to \$350 clear, besides having all the fruit they want for their own family use. Very many people from the middle and eastern states, when they learn that the price of our lands, nnimproved, is from \$150 to \$300 per acre, and fullbearing orchards from \$500 to \$1,000 per acre, they are paralyzed. They pay from \$50 to \$100 per acre for good lands within a few miles of a prosperous town. Compared with these figures, our prices do seem very high. But the test is, what do these different lands produce in the way of incomes? A test to which few people who have these cheaper lands are willing to apply. They are, as a rule, fortunate if they net \$10 per acre, which is 10 per cent. Lands here, in orchards, at from \$500 to \$1,000 per acre, have on them valuable fruit trees, which have cost considerable money to set out and care for. These lands yield from \$100 upwards (I only whisper it, but I know of over \$500, net

in labor, compared with eastern farms. I have four acres in peaches and apricots, on which this year was only a light half crop, but still it netted between \$1,100 and \$1,200, or nearly \$300 per acre, a sum far in excess of what the majority of eastern farmers would make on one linndred acres, and work hard all year to do it, too. This land cost \$600 per acre, and is almost in the city. Of course, a little further out, land would be much cheaper. Land here is not inflated as it is up north.

San Jose, Cal.

FROM TENNESSEE. - Owing to the booms in our neighboring towns and cities, farm produce is going up fast. New corn is worth 60 cents per bushel; oats, 40 to 50; wheat, \$1.15 to \$1.25; Irish potatoes, \$1 to \$1.25; sweet potatoes, 60 to 65; bntter, 20 to 25 cents per pound; eggs, 20 cents per dozen; hay, \$18 per ton. If auyone doubts the existence of our boom, he can be easily convinced by hearing the music of the hammer and the saw everywhere, and seeing thousands of men and teams employed in grading streets, building houses, etc., in our towns; and the traiu-loads of lumber and logs. We have iron ore, coal, lime, timber, etc., all close together; railroad and river transportation through our district. Land is going up fast. A steady stream of northern immigration is pouring in. We have had a beautiful winter so far, frost every night and regular midsummer days, a genuiue Indian summer. On the opening of spring we expect a bigger boom than ever. Everybody is welcome. There is room for all here, where we have a beautiful climate, good health, free and unmolested speech and vote and expression of religious and political opinion G. C.

Lorraine, Rhea county, Tenn.

INSECTS ON FRUIT TREES Can be destroyed by spraying with London Purple. Diseases of grape vines can be checked by spraying with Bordeaux mixture. The Field Force Pump Co., of Lockport, N. Y., manufacture the Knapsack Sprayer and a full line of Orchard and Vineyard Outfits. Write them for circulars and directions.

GOOD WORDS FROM OUR SUBSCRIBERS.

PITTSBURG, PA., November 6, 1890. We received your beautiful picture, "Christ on Calvary," and are greatly pleased with it. As a work of art it is superb, and I cannot thank you enough for sending it.

MRS. J. NELSON.

WASHINGTON, IND., November 4, 1890. The pictures, "Christ Before Pilate" and "Christ on Calvary," to hand. I am very much pleased with them. They are greater than I expected. JOHN W. HEALY.

ORLANDO, ARK. I received the picture, "Christ on Calvary," in good order, and it is all you claim for it. I would not take Ten Dollars for it.

REBECCA SIMMONS.

PAINESVILLE, OHIO, December 4, 1890. We received both pictures, "Chrlst Before Pilate" and "Christ on Calvary." We are very much pleased with them. We send our many N. A. WRIGHT.

SEGUIN, TEXAS, December 5, 1890. I received your picture, "Christ on Calvary," in good shape, and many thanks to you. I would not take Five Dollars for it, and thought it so good I sent it at once to be framed. All of your premiums are worth LIZZIE BELL WILLIAMS. working for.

SWEET HOME, TEXAS, Oct. 9, 1890. The sewing machine gives great satisfaction, and we are very much pleased with it. A. H. HARNDEN.

G. A. S.

MORRISVILLE, N. Y., December 5, 1890. Allow me to present my thanks for the beautiful painting, "Chrlst on Calvary," which I received promptly. In regard to the picture, I will say that it is truly a fit companion to that superbone,"Christ Before Pilate," which I have incased in a lovely frame, and which has been greatly admired. And when I shall have this hanging by its side, I shall feel, as I look upon the grand paintings, as If the presence of my Divine Master permeated the room I have set aside as a sort of shrine for my household idols.

MRS. HELEN J. ATWOOD.

ROUND HILL, CONN., Nov. 14, 1890. I received your beautiful picture, "Christ on Calvary," and it is the most beautiful picture I ever saw. I am well pleased with it and would not take a good deal for it.

SARAH HORTON.

JEFFERSONVILLE, OHIO, Oct. 25, 1890. I received the plcture, "Christ Before Pilate," in good shape, and would not take \$5.00 for it, if I couldn't get another just like it.

MAGGIE E. WITT.

TIPTON, Mo., November 7, 1890. I received your high-arm Singer sewing machine, and think it is nice for the money. It is much nicer than I expected lt to be. It ls just as you recommended It to be. The freight on it was only 70 cents. I thank you for sending me such a lovely machine.

PAULINA SCHERER.

MIDDLETOWN, N. Y., Nov. 2, 1890. The sewing machine arrived and is just as represented to be. Please accept my thanks. Will do all I can to recommend your paper to friends. E. DUNNING.

BELMONT, LA., Nov. 10, 1890. I received your premium sewing machine last April, and am well pleased with it. It is M. J. TYLER.

LAWRENCE STATION, N. J., Nov. 10, 1890. Please accept thanks for the beautiful plctures, "Christ Before Pilate" and "Cbrist on Calvary." They are very much admired. I appreclate them very highly.

JOHN F. ROBBINS.



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Our Lireside.

INSIGHT.

On the river of life, as I float along, I see with the spirit's sight That many a nauseons weed of wrong Has root in a seed of right. For evil is good that has gone astray, And sorrow is only blindness. And the world is always under the sway Of a changeless law of kindness.

The commonest error a truth can make Is shonting its sweet voice hoarse. And sin is only the sonl's mistake In misdirecting its force And love, the fairest of all fair things
That ever to men descended. Grows rank with nettles and poisonons things Unless it is watched and tended.

There could not be anything better than this Old world in the way it began. And though some matters have gone amiss From the great original plan; And however dark the skies may appear. And however sonls may blunder, I tell you all will work out clear, For good lies over and under

-Ella Wheeler Wilcox.

On Bohemia's Border.

BY DOROTHY LUNDT. CHAPTER V.

r was her first moment of leisure that day, and Helen, whom the manners and customs of the world at large tronbled very little in the way of suggestions of precedent. seeing by the Arlington street clock that she had at least a half hour before she was due at home, sat down on one of

the old stone benches, and gave her weary sinsesun to a deep and quiet enjoyment of autumn twilight. Behind the irregular f the beautiful old Beacon street honses the uns-t fire was just fading down; the sky above showed a broad reach of that rare and exquisite color of which northern skies in October alone have the secret; pure, soft, glowng bery, holding in itself, yet not revealing all the tenderness of rose tints, all the majesty of gold; that clear, faithful, passionless color which tells to those who have eyes to see, the secrets of the Spirit of the North.

Two or three great stars were glittering through the dusk. Dim and delicate above ou her feet again, do you suppose I want the sharp whiteness of the electric lights, just kindled on the public garden, there was the thin crescent of the new moon. The keen but friendly wind kept the fallen leaves on the wall busy in gnsty play; the pungent autumn odor of them was strong in the air. The dear and homely peace of the twilight honr, which "brings a hame," was upon even the restless world of the crowded city.

From where she sat Helen could see the ceaseless hurry of the crowd down the flagged walk to the Park Square station; a pleasant hurry, as of men eager to be at home. And there was a pleasant look, or so she fancied, of anticipated content on the faces of the rarer passers by the Charles street mail. Plainly dressed women, some of them carrying the little, black bags which hinted of work-apron and scissors and dressmaker's charts; yet walking briskly, too, with a suggestion of the little home-room to which they were hurry-The room Helen amused herself with idly picturing with an ingrain carpet in squares of red and green, a bird-cage in the window, and on the sill without the mllk-can, in which cream had been rising all day, for the cup of tea presently to be brewed in the little pewter

"It feels a trifle lonely," said Helen to herself, with a little smile and shiver, "but I shall have a chance to test it for myself after next

"Bah! what ungrateful nonsense! It will only be plunging a blt deeper into Bobemia for one winter, and that I've always wanted to do. I'll make Max take me to dine at Marlaire's three times a week. I'll work up the local color for that story of 'Footlight Friends,' that's been buzzing through my brain these three months. I'll give myself a holiday, and explore those historical corners of old Boston we've talked so much about and never hunted up. I'll do two or three famous tales before Lois comes back, and perhaps come to such glory that 'My sister, Miss Dowlas, will be quite a personage in Mrs. Caird's drawing-room.

"Bless me, when I 'remember my mercies.' there's nothing to grumble about in spinsterly isolation for a year, in Bohemia. And oh, the give her, the sheltered, calm life she loves best, where everything is usual and acknowledged and safe. Strange that we should be so

different, and strange that I should have been too selfish, for so long, to admit the difference. Max was clearer-sighted than I. What a comfort it is to have a friend like Max. It is an anchor for one's life, among all the changes of

"They say youth is the best thing in the world; but I wonder if it isn't better, after all, to find one's self just touching middle age, with ambitions growing by achievement, with sure, ripened friendships."

She felt a sort of sudden glow of warm and quick content; her life had never seemed to her a safer, better thiug, more happily worth living, than at that moment. The wind came scurrying down the mall, with a colder breath caught from the coming night. She had been sitting idle too long in the autumn dusk; a light shiver ran through her and she rose hastily, wrapping her cloak more closely about

"My good woman," said a voice close beside her, with an accent of grave impersonal philanthropy, "you seem to be cold, and are far too thinly dressed for such an air as this. Will you accept my overcoat?"

She had started at the first word, but she was laughing merrily as the voice concluded its benevolent speech.

"Well, you certainly did startle me, Max," she said, "and moreover, you certainly can evolve impertment speeches with a quickness which amounts to genius."

"Impertinent? I never was more serious in my life," said Dr. Ainsworth, falling into

for a minute, and then it came to me, as I told you, that whatever one may miss, one is never truly lonely who has ambitions and old friends."

It was a brave and a womanly face she turned toward him; and with an impulsive gesture very characteristic of her, she stretched out her hand toward him with a gesture full of affectionate confidence, as she said "old

He clasped it, warmly and heartily; and then, for it was quite dark now, and they were crossing the crowded Park Square mall, with the hurrying crowd jostling them to right and left, instead of releasing her hand, he slipped it within his arm, as they went slowly on together. There had been a little silence, and

"Nell," said Dr. Max, and she felt rather than saw, that he seemed to pull himself together and square his shoulders, as if he were facing something not quite easy to be done. "Nell, yon've been too busy to look about you much; and I dare say you baven't noticed that Royd and you are not the only ones affected by your 'contagious domesticity.' Why, it has worked upon me to that degree that I--'

There was an odd, strained, embarrassed note in his cordial, steady voice. A sudden, electric sense of something unforeseen, of something at war with all the safe and warm content of her mood, came to Heien Dowlas, with a tightening of the heart that was like a physical pain. All in that strange moment, the unfamiliar step beside her. "Now that we've gotten Lois | tone in the voice she knew so well, the down-

itself to some great, impossible distance, and that the night about her was another night than any she had ever known, a night without stars, and out of whose shadows uncanny things might come. She noted again, though quite unconsciously, that Dr. Max, before he began to speak, repeated that odd movement, as of bracing himself against something hard

"Nell," he began, once more, "it's inst here, you've said it for me. I've been realizing lately, in the atmosphere of Archie's and Lois' happines, that the seamy side of independence is loneliness. I am tbirty-eight years old, Nell, and when I go bome at night there's nobody but my old dog to welcome me. Ambitions, friendships, they're good things, as you say, Nell; but after all, they stimulate oue, they do not feed one. I've owned the truth to myself lately; I want a home. I want something to hold to so closely that the winds of the world can't blow us apart. I shouldn't have realized it so soon, perhaps-though every man must feel it first or last, I think, Nell-if your home, which bas been almost mine, wasn't to be broken up."

"Max!" she cried, her voice sharp with a bitter hurt and reproach, "Max, is the home then broken up for you because Lois is gone, wbile I am there?"

"Nell," he said, more steadily and in his old fashion than he had yet spoken, "even in Bohemia, could I come when you are alone there as I came when Lois and Mrs. McCossatt made it a household to come into, and not as it would be presently, merely one woman to visit?"

It was cruelly plain speaking, but Helen Dowlas took plain speaking always as respect. "I had not thought of that, Max," she said, and there was a strange note of humility sounding through the pain in her voice. "It is strange, but I had not once thought of that. Even in Bohemia, as yon say, you could not come as you have come. And"—her voice was almost within her control now-"I am so glad you remembered so well that to bave a friend in any way different is worse than to lose him outright and altogether, to me."

"But I do not mean you to lose me ontright and altogether," he said, and there was a cheeriness in his voice that brought to her a sharper hurt than all its former oddness and embarrassment. "Because a man has a home, does it follow its doors are closed on his old friends? I mean you in the new days to be oftener in my drawing-room, please God, Nell, than ever I was in the studio in the old days."

A sort of rage at what seemed to her the stupid heartlessness of a Max Ainsworth she had never known, shook her from head to foot; she laughed, but it was not a pleasant laugh to hear. But as if he had not heard it, he went on:

"Not that I have any right yet to talk about my drawing-room or my home; for they are uothing on earth, yet, but a dream. But you know the lease of the old house on Mt. Vernon street, that my uncle left me, expires this year. Aud this is what I bave been dreaming about. Not to relet it, but to move into it; to restore it a bit here and there, but keep the old-fashioned look, I hope; andit's safely enough away from Philistia and the court end of the town; and most of my practice lies thereabouts."

"Considerations that would be likely to appeal to Mrs. Ainsworth, I should judge," said Heien, with courageous irony.

"Mrs., eh?" said Dr. Max, a trifle taken aback, and then laughed. "Oh, I have flattered myself that if Mrs. Ainsworth honored me by taking my name, she would oblige me by sharing the home of my choice," he said. "But I have told you, Nell, it is only a dream and a hope. I am so little sure that I couldn't even hazard a guess upon it, whether the one woman who will ever be Mrs. Max Ainsworth and make that old house home to me, will answer me yes or no."

It was not with a very steady voice, but it was with a very sweet and kind one, that Helen Dowlas answered him.

"If she is a woman worth you, Max, and you give her time to know you as you are, I do not think you need fear what her answer will be,"

"How can you venture that, Nell, when you do not know her name?" said Dr. Max, and he asked the question with au odd sort of whimsical wistfulness.

"But are you sure I do not know her name? I have not believed, I will confess that, the laughs and whispers that have been In the air for a month or two; but I have heard them," Helen answered. She tried to speak lightly, but her voice sounded to herself dry and cold.

They were at the corner of Roscommon Place. The clock was striking six, and Dr. Max tried to speak with his old, pleasant briskness as he cried:

"Bless me, Nell! I had au engagement for



you on my hands, tottering on the verge of a decline?" "It takes more than one shiver to over-

throw a Dowlas," said Helen, briskly, "but really, it would be awkward to have me where Lois was a few weeks ago, wouldn't it, now? For where would you find the fairy priuce to call me back to life again?'

"You wouldu't be suffering from Lois' trouble, assuredly!" said her companion; and he glanced at her with a quick, odd sort of look that was very much like resentment, as she moved on beside him through the dusk, with what Royd called her incedit regina poise, so straight and steady, so ruddy and strong. "Heart-break isn't a diathesis, as the medical phrase goes, of your inches and color and your-"

"Oh, say it. I don't mind. I've been saying something a little like it to myself, as I sat on the bench youder; saying to myself that middle age wasn't a half had thing to face, when it brought wide interests and living ambitions and tranquil, safe, tried, old frieud-

"And what had you been saying to yourself," said Max Ainsworth, speaking a trifle more quickly than his wont, and again glancing at her with a look less easy to translate thau the frank and friendly ones he was wont to cast her way, "that you make such an eminently sensible argument in reply?"

"That's a lawyer's question, Max, not a doctor's." Helen sald, and she flushed lightly, through all the healthy glow the keen wind was bringing to her cheeks. "But I don't see why I shouldn't answer it. I suppose what Mark Royd calls the 'contagious domesticity' of the atmosphere at home, lately, has affected me more than I know, until I had a qulet minute, like that one on the bench yonder, to realize it in. When one feels what it is like to be happy as Lois is happy, then one sees the seamy side of independence-and that Is loneliness, you know. I suppose I never should have gotten so romantle-I, at my age, Max!if I wasn't to be quite alone when Lois goes. unspeakable comfort of knowing that my girl | In most homes, when a sister is married it is a is happy, and has at last what I could never ripple in the bome life, and all is past. But with us lt-it is a sort of shlpwreek. Without Lois to plan for, I felt, for just a moment, Othello's occupation's gone.' But it was only and the life of it had suddenly withdrawn

"My years?" Helen interrupted, laughing. cast look in Dr. Max's frank and manly face, the sense with which, as by some dark magic all the air was full of coming surprise and change and loss.

Helen felt that, with no breath of warning, tbat friendship which she had called in her thoughts "the anchor of her life," had slipped its safe hold, and she was adrift on some cold aud misty sea. Not quite knowing what she did, she caught her band from his arm and moved, with a curious weakness and aimlessness in her step, away from the hurrying crowd, toward the dark, quiet, grassy spaces that stretched away from the lighted path-

Dr. Ainsworth followed her hurriedly, a llttie anxlously, and with an utter absence of self-poise and steadiness, which was as strange in him as in her.

"Nell," he sald. "Why, Nell, what is the matter? I said nothing."

"No," she answered, quickly, and It was easy to see she was struggling to regain the selfcommand that never before in all ber life bad so suddenly been treacherous to her. "No, it was not anything you said, Max. It was something that came, all in a momeut, into the atmosphere between ns. It was something you mean to say, Max, and will you say It quickly, because I know it's to surprise me, and I do not want time to wonder if it will hurt me, too."

They moved slowly together across the dlmlit grass. It seemed to Helen that the world

For Throat Troubles

croup, whooping cough, and loss of voice, the best remedy is Ayer's Cherry Pectoral Prepared by Dr. J. C. Ayer & Co., Lowell, Mass.

fifteen minutes ago, and I can't stay with you auother second. Bnt-but now I have told you so much, I can't wait to tell you the rest. May I come up when I am at lelsure to-night -it won't be later than teu-and have an oldfashioned talk with you, and tell you her name, and-and I have a fancy, for you have raised my courage by that good word of yours, Nell, that I shall be able then, perhaps, to tell you her answer. May I come? It is not mauy more of our old-time talks by the studio fire that we can hope for, now that the breaking up is so near."

It was not like Dr. Max's thoughtfulness, that though he was looking at her very closely as they stood under the doorway lamp, he sald nothing of the weary pallor of her face, or the unwonted shadows under her kind aud keen, gray eyes. Perhaps there possessed him, for the moment, that strange, selfish oblivlon which dims the thought of old friends in the heart of even the best man, when the heart is full of dreams of more intimate happiness.

There was a pathetic wistfulness as of an appeal from the new Max to the old-a look that set oddly on her strong and bright faceas she turned to him.

"You know you are always welcome, whether you come early or late," she said.

She went slowly upstairs, very slowly, with a curious feeling that she was short of breath and the distance was long and hard to climb. On the landing just outside the door she paused, catching the soft clatter of china and glass and the sound of Lois' low laugh, and later, a few words in Royd's gay voice. She had a sort of consciousness, as of one stauding apart and watching herself impersoually and uninterestedly, that it was not her old self whom the tide of this familiar life was pulsing out to meet; not her old, steady, merry, practical self; but a tired woman, inelastic in thought and movement, who felt herself lonely and old.

She pulled herself together suddenly, and stood up straight. "Helen Dowlas," she said, "we'll talk this out together by and by, we

The bitter pathos of Brutus' words as he passes Cassius' body without lament, echoed through her thought:

"'I shall find time, Cassius, I shall find time.'

"But the time is not now. Can you, who have preached to Lois, practice? Let me see what your pride is worth, and your self-control you are so proud of, and your good sense. By and by you shall look the fact straight in the face that Max Ainsworth is going out of your life as Lois has gone; but not now-now-'

Then she opened the door and went in. They crowded to meet her, with laughing reproaches and ridicule of her lateness. Mrs. McCossatt reminded her, with severity, that tea was set for a half hour earlier than usual, since Archie was to take Lois that evenlug to bid good-by to Mrs. Griswold, who, with Carroll, started to-morrow on her sad pilgrimage to a little town across the sea. Tea was over now, but she could pick up a monthful, If she liked.

She did not like, Helen said; she had not been so tired for months, she believed. It was the just punishment of vanity, she told Royd, who came to sit beside her when she had forced herself to drink the tea Mrs. McCossatt had relentingly brought her, and had seated herself in her fireside chair, drawing up a low basket, heaped with some heavy, white

"It is all wretched vanity which is bringing down my gray hairs in sorrow to a headache!' she sald to Royd, and she noted, with that same curions, double consciousness she had had for hours, that her voice sonnded quite like itself, and matched her light words and not her heavy heart. "For did you know, Mark, that I had spent the livelong afternoon at the dressmaker's?" she said, and she acknowledged his melodramatic ralsing of hands and eyes to heaven with a little laugh. "You see that we have met the Phillstines and we are theirs, so to speak. Now, I had taken for granted that for a quiet morning wedding, again, and a quick drive over to the steamer— It would be quite sacrifice enough to the Grundys if I wasted my substance in having the oue great and original black sllk gowu cleaued at Lewando's, instead of doing it up myself, with soan-bark. But nothing would do but a shining new garment, If you please; and when one undergoes the awful experience of fitting for the first time in twenty years or

"You are worse than Philistine, Nell," sald Royd, "you are domestic." He touched her right hand lightly. "That ever I should live to see you using a needle!"

"Calm yourself, it is a sail-needle. The cover of Lois' trunk was suffering a dissolution of continuity, and Janet kindly trusted me with the contract of repairing it, stitches being less an object than solidity.'

And so the idle talk went on about her, and she bore her part in it fully and bravely, throwing now and then a bit of humorous counsel to the table where Lois and Archie, with countless maps and guide-books, were making the thousandth change in the itlnerary of that year's happy foreign wandering which was to begin so soon; pacifying dear Janet McCossatt's wrath under Royd's impertinent chaff as to whether 'the widdy at Windsor' was expected to turn out the 'Orse Guards on the visiting of London by its ardent worshiper, for it was settled from the beginning that the time had come for the dear ! It took me by surprise, because I had been,

old lady to make the plous pilgrimage she had been planning for thirty years, now that service to Lois could be reconciled with that long dreamed-of pleasure; laughing with the rest at Royd's solemn assurance, when theatre hour called him away, that their 'evlugly atmosphere of mutual affection had so worked on his better nature, that he had threatened his manager with breach of contract unless he was cast in the next plece, not as villaiu, but as virtuous hero.

"For my louglings are unspeakable," he said, "to have the curtain fall on me, but once, clasped in the arms of virtnous affection, instead of, as usual, led off in irous, R. U. E., by triumphant detectives."

It was over at last; the stralu of the talk and laughter. Royd had gone, and a little later Lois and Archie were on their sorrowful little farewell visit to poor Aunt Harriet, who had given Lols a tender welcome among them, though she could not delay her "going to Phillip" for even the few weeks until the wedding day. "And I should but come as a shadow there, dear child," she had sald. Mrs. McCossatt had begun to pack her box on the first intimation of her accompanying Lois, and uupacking and repacking the same had been the absorbing occupation of all her subsequent days and nights. To her bed-room and her box she now betook herself accordingly, and Helen was alone.

She drew a long breath of relief, as she threw down the work with which she had been busying her unsteady hands; and with the gray and weary look her resolute smile had banished, coming back again to her face, she crossed to her bed-room and shut the door. As she had looked into her mirror that hot, August night two wonths ago, "to see how Helen Dowlas looked with a happy face," so, in the clear and merciless light of her lamp turned up at its height, she questioned Helen Dowlas' face with another look upon it, and read from it, unshrinkingly, bitter truths.

She noted the many threads of gray about the temples; the lines of thought and care at eyes and lips; the little hollows and fullnesses that at cheek and throat had stolen away the firm and lovely contour of first

Without the lightness of content which lent it comeliness, it was not a beantiful face; only a strong and true and weary one. And lookiug iuto its courageous eyes, she "thought it

Well, it was past, and it was her last illusion. It would be a hard wrench to give it up; she had not known how that one illusion had reflected upon her life most of the rose-color that strenuous life could boast. But the life would not go bare. The gray of duty and the purple of ambition would clothe it always.

She had outlived too much in her years, not to know that most things can be outlived. Life could be interesting when it ceased to be happy. There would be something always to win, something to struggle against, something to smile over-but would she ever smile over a joke she could not share with Max?

It was like Helen Dowlas that the first tears she had shed rushed burning and stinging to her eyes, as she asked herself that question. All the consciousness of the thousands of tiny threads of congenialty, of habit, of confidence, of entire mutual trust and comprehension and loyal affection that for over twenty years had woven her life to Max Ainsworth's life, and which must be broken now, one by one, and the breaking of every one a separate pain, pressed down her heart with a stifling pressure that was misery beyond any she had ever known.

She dashed to her feet; the striking of the clock warned her that he might be here at any moment now, and she would sooner the news of her death should meet him than a sight of that white, woful face the mirror had showed her. Who shall say where in the next half hour she sought and found comfort and self-coutrol? Was it the fierce flinging against her face of waves of water, pungeut with some eastern essence, that could subtly such as Lois' is to be-just into church and out steal away the stains of tears? Was it from the autumn sky, thick-strewn with keen and glittering stars, which she stood watching from between her parted curtains later, with the light turned low? Was it from that moment spent on her knees by her father's old chair with hidden face?

That is not told; but when Max Ainsworth came into the studio as the clock marked three quarters after nine, she rose from the seat she had chosen, well back in the shadows of the chimney corner, and greeted him with an outstretched hand whose clasp was warm and cordial and steady. It was not she who was so discomposed that the old familiar. friendly talk and silences were out of the question. It was not she who wandered restlessly about the room, fingering this bit of bric-a-brac and that, aud going suddenly hot all in a moment and opening the lips as with an intent to say something of consequence, and closing them again with a sort of shamefaced, nervous langh.

No, it was grave, tranquil, self-possessed Dr. Max who did all these odd and awkward things; and through all the queer little aches at her heart, Helen felt a certain quaint, Irresistible amusement at seeing him do them. which did more than anything else could have done to give her back quite to herself.

"Max," she said at last, very kindly and slmply and naturally, "Max, I have been thinking over what you said this afternoon.

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as you said, absorbed in my own matters. And I had been stupid, when others were saying how good a wife Emily Westborne would make you, iu forgetting that a man does not judge the woman he marries by the same standards he applies to women when he is discussing them impersonally with his frieuds."

"Nell," said Dr. Max, his nervousness gone of a sudden, as he sat down beside her and spoke with something like hls old, amnsed smile (though he had started, too, markedly enough, when she mentioned Emily Westborue), "are you aware that what you have just said is not exactly complimentary to the young lady in questiou-if you mean, as I suppose you do, that because I am in love with her I overlook the fact that she could not meet my old ideas?"

"I-I did not mean to be rude, Max!" she cried, and she flushed, distrustfully. "All men are like that; it is only that I was so stupid in thinking that you might be an exception. Men do not think of looking for the large, human qualities in a wife which they look for in a friend; it is enough that she-But he interrupted the little disquisition.

"But perhaps I am not an exception, after all," he said. "I flatter myself that there is

not a quality I value in a friend which my wife that is to be-if she is to be-does not own." She thought of Miss Westborne's little,

omnipresent smile, and looked at him and was helplessly silent.

"I might be so infatuated as to say that, If I were speaking of Miss Westborne, whom in the inscrutable decrees of Providence I have no idea whatever of marrylng," he went on composedly; "and I really don't know what you have ever seen in me, Nell, to make you credit me with a longing to espouse a marionette."

She looked at him breathless, bewildered, her color coming and going.
"But, Max," she gasped, "I never heard your

name associated with any other woman's in my llfe. Who-who-

"My dear Nell, your who-whos are worthier of an owl than of-excuse me-a goose." He laughed a sudden, low, glad laugh, and then he reached across the table and picked up something that reflected back the firelight from its surface of dulled silver. "I will do better than tell you the name of the one woman on earth I shall ever ask to be my wife; I will show you her likeness," he said. And then before Helen Dowlas' amazed flushed, wondering face, he held Lois' little mirror.

She never quite knew what happened in the next few moments. She knew that a great peace, like a flood of sunshine over a rainbeaten and wind-torn world, was folding her In and warming her to the heart, and that both her hands were fast in the hands of her life-long friend, in a clasp of perfect trust and loyalty; she knew that all that pain of losing her life thread by thread from his, which she had schooled herself to bear, was never to be borne, but that those threads were Instead to weave themselves luto oue supreme tie. blessed and abiding. "Max." she said, "oh, why did you let me get

such a fright and such a misery? You might have known," said Helen Dowlas, with a candor wholly her own, "that I had a thousand times rather marry you than lose you altogether!"

He broke into happy laughter.

"Oh, but that is a tender acknowledgement, Nell!" he cried. And then, sitting together in the firelight, in great and sweet content, he told her with a frankness mating with her own, that he had never realized his own heart toward her till he had realized the inevitableness of the breaking of their old, close, simple intimacy by Lois' marriage. "And when I saw how my whole life was bound up with yours, Nell," he said, "I trembled to say

words that might bring us together or might send us apart, for I knew you had never given me one loverlike thought in all your life. And it came to me that the only possible way was to let you, as I had done, first face what it would be to us to be apart."

"It wasn't very kiud of you, Max," she said after a little silence. "But I can see how it was wise. For if you had asked me to marry you, point blank and on an unprepared mind, so to speak, I think," she mused aloud, with all her old, fatal honesty, "I should probably have told you that your brain was weakened from overwork and you needed rest and a tonic. But I did 'face what it would be for us to be apart,' and oh, Max-Max-

The tears that were so unfamiliar to him in his long years' knowledge of her brimmed and overflowed her gray eyes, as she raised them to his. And he took her in his arms and klssed her.



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Our Kousehold.

A BALLAD OF EAST AND WEST.

AMAL is out with twenty men to raise the border side,

And he has lifted the colonel's mare that is the colonel's pride He has lifted her out of the stable door

between the dawn aud the day, And turned the calkins upon her feet, and ridden her far away.

Then up and spoke the colonel's son that led a troop of the Guides:

"Is there never a man of all my men can say where Kamal hides?"

Then up and spoke Mahommed Khan, the son of Ressaldar

"If ye know the track of the morning mist, ye know where his pickets are. At dusk he harries the Abazal; at dawn he is

into Bonair; But he must go by Fort Monroe to his own

place to fare . so if ye gallop to Fort Monroe as fast as a bird

cau fly, By the favor of God ye may cut him off ere he win to the Tongue of Jagai.

But if he be passed the Tongue of Jagai, right swiftly turn ye theu,

For the length and the breadth of that grisly plain is sown with Kamal's men." The colonel's sou has taken a horse, and a raw,

rough dun was he, With the mouth of a bell and the heart of hell, and the head of the gallows tree.

The colonel's son, he's up and away as fast as he can fly,

Till he was aware of his father's mare in the gut of the Tongue of Jagai

Till he was aware of his father's mare with Kamal upon her back,

And when he could spy the white of her eye he made the pistol crack.

He has fired ouce, he has fired twice, but the whistling ball weut wide. "Ye shoot like a soldier," Kamal said, "show,

now, if ye can ride." It is up and over the Tongue of Jagai, as blown

dust-devils go. The dun he fled like a stag of ten, but the mare

like a barren doe. The dun he leaned against the bit and slugged

his head above. But the red mare played with the snaffle bars

as a lady plays with a glove. They have ridden the low moon out of the

sky, their hoofs drum up the dawn, The dun he went like a wounded bull, but the mare like a new-roused fawn.

The dun he fell at a watercourse-in a woful heap fell he-And Kamal has turued the red mare back and

pulled the rider free. He has knocked the pistol out of his hand-

small room there was to strive-"'Twas only by favor of mine," quoth he, "ye

rode so loug alive; There was not a rock for twenty miles, there

was not a clump of trees, But covered a man of my own men with his rifle cocked on his knee.

If I had raised my bridle hand, as I have held it low, The little jackals that flee so fast were feast-

ing all in a row; If I had bowed my head on my breast, as I

have held it high, The kite that whistles above ns now were gorged till she could not fly."

Lightly answered the colonel's son: "Do good to bird aud beast,

But count who come for the broken meats before thou makest a feast. If there should follow a thousand swords to

carry my bones away, Belike the price of jackal's meat were more than a thief could pay.

They will feed their horse on the standing crop, their men on the garnered grain,

The thatch of the byres will serve their fires when all the cattle are slain.

But if thou thinkest the price be fair, and thy brethren walt to sup, The hound is kin to the jackal spawn-howl,

dog, and call them up! And if thou thinkest the price be high, in

steer and gear and stack, Give me my father's mare again, and I'll fight my own way back!"

Kamal has gripped him by the hand and set him upon his feet,

"No talk shall be of dogs," said he, "when wolf and gray wolf meet;

May I eat dirt if thou hast hurt of me ln deed What dam of lances brought thee forth to jest

at the dawn with death?" Lightly answered the colonel's son: "I hold

by the blood of my clan; Take up the mare for my father's gift-she will carry no better man!"

The red mare ran to the colonel's son and nuzzled against his breast. "We be two strong men," said Kamal, then,

"but she loveth the younger best, So she shall go with a lifter's dower, my turquoise-studded rein.

My broidered saddle and saddle-cloth, and sllver stirrups twain."

The colonel's son a pistol drew and held lts muzzle-end,

Ye have taken the one from a foe," said he: "will ye take the mate from a frieud?"

"A gift for a gift," said Kamal, straight; "a limb for the risk of a limb.

Thy father has sent his son to me, I'll seud my son to him!"

With that he whistled his only son that dropped from a mountain crest, He trod the ling like a buck in spring, and he

looked like a lance in rest. "Now, here is thy master," Kamal said, "who leads a troop of the Guides.

And thou must ride at his left side as shield to shoulder rides,

Till death or I cut loose the tie at camp and board and bed. Thy life is his; thy fate it is to guard him with

thy head. And thou must eat the White Queen's meat,

and all her foes are thine; And thou must harry thy father's hold for the

peace of the border line, And thou must make a trooper tough and

hack thy way to power-Belike they will raise thee to Ressaldar when I am hanged in Peshawur."

They have looked each other between the eyes, and there they found no fault;

They have taken the oath of the brother-iublood on leavened bread and salt;

They have taken the oath of the brother-inblood on fire and fresh-cut sod, On the hilt and the haft of the Khyber-knife

and the wondrous names of God. The colonel's son he rides the mare, and

Kamal's boy the dun, And two have come back to Fort Monroe

where there went forth but one. And when they drew to the quarter guard, full twenty swords flew clear-

There was not a man but carried his feud with the blood of the mountaineer. "Ha, done! ha, done!" said the colouel's son.

"Put up your steel at your sides; Last night ye had struck at a border thief,

to-night 'tis a man of the Guides!" Oh, east is east, and west is west, and never

the two shall meet Till earth aud sky stand presently at God's

great judgment seat. But there is neither east nor west, border or

breed or birth, When two strong men stand face to face, tho they come from the ends of the earth.

-Rudyard Kipling.

MOUNTMELLICK EMBROIDERY.

In early times it was very necessary to find work for idle fingers-work which should serve the purpose of putting in the time and also furnish a livelihood for the

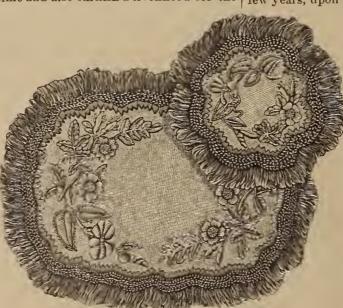


TABLE-MATS IN MOUNTMELLICK EMBROIDERY.

Ireland, about sixty-five years ago, by Jane Carter, herself an Irishwoman, and it has since become the staple industry of the women in that locality. An industrial association now provides work for more than fifty women. All sorts of beautiful articles of underwear, bed-linen and children's clothes are made of it, and its cheap price promotes the ready sale of it.

Firm, Irish linen is used and white knitting cotton of different numbers, both of which will withstand the ravishes of the laundry. Knot stitch, satin stitch, outline and rolled stitch are used wherever the pattern calls for it. In the toilet set all of them are used. The rolled stitch is made by wrapping the thread around the needle. The fringe is knitted of the coarse cotton and proves a very effective finish. No color but white is used upon them. Toilet sets and table furnishings can be made of it; also many beautiful garments for children's use.

CHRISTIE IRVING.

Coughs.

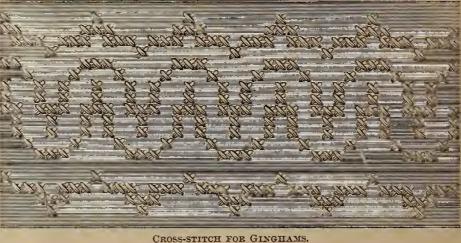
"Brown's Bronchial Troches" are used with advantage to alleviate Coughs, Sore Throat, Hoarseness and Bronchial Affections. 25 cents a box.

HOME TOPICS.

Tomato Bisque.-Rub one can of tomatoes through a colander and heat it to the boiling point. Heat one quart of rich milk in a double boiler and thicken it with one tablespoonful of corn starch. When ready to serve, ponr the tomatoes into the soup-tureen and add the hot milk, a little at a time, stirring it constantly. Season with a tablespoonful of butter, salt and pepper to taste, and serve immediately. This is a simple and most delicious soup.

Schools.—The first term of the school year is gone and the second just begun. I have no doubt that if I should ask all the is a great mistake to repress and hide our

loving them just as devotedly, we grow reserved and chary of our expressions of love. Let us not do this. When our hearts are filled with love and joy and pride, as that of every true mother is for the tall young man who looks down on our head as he calls us mother, it will not hurt him nor us to let him see what is in our hearts. They need our love as much now as ever. When the seventeen-yearold daughter comes to us hungry for caresses that were showered upon her baby life, let us not turn her away, but open wide our motherly arms and let her see how dear and precious she is to us. It



readers of this paper who have children deep affection for the dear ones around in school the question, "Are you interested in the school life of your children?" they would answer, almost indignantly, "Of course, I am." If I should question further, I wonder how many I would find who had visited the school, had become acquainted with the teacher, had examined the text-books and made themselves acquainted with the process by which the 'averages" shown on their report cards have been attained, or how many have even a clear idea of the life in the schoolroom, the studies their children are pursuing, the mental and moral training they are receiving, and whether it is all adapted to fit them for their after life? There has been much said and written, in the last few years, upon the subject of educating

children in harmony with their talents and the possibilities of their future. The kindergarten and manual training are results of this; but when fathers and mothers generally are aroused to the iniportance of the work, and not before, will the best results be accomplished.

Any teacher who is conscientiously trying to do his duty will gladly welcome the visits and acquaintance of the parents of his pupils. The more a teacher can know of the home life and surroundings and of the parents' hopes and am-

family. This embroidery was introduced | bitions for the child, the more intelligently into Mountmellick, Queens county, can he work. Every mother and father once in each term. Both teacher and pupils will be encouraged thereby. In following the regular course a child will often take no interest in some one study, or, perhaps | fuls of sugar and half a teacup of boiled conceive a positive dislike for it. This can usually be overcome if

parents will interest themselves in it and co-operate with the teacher in striving to arouse the interest of the

Do not allow the children to find fault with their teacher at home, and no matter what reports come to you,

never pass judgment until you have visited the school and made the acquaintance of the teacher in a kindly spirit. Do not expect too much in the way of patience from a teacher. Are you never nervous and impatient with your own two or three little ones? Think what it must be to have the care of thirty-five or forty restless children, and be ready to help the teacher in every way you can. Nine out of ten will appreciate your sympathy and be the better teacher for it.

GROWN-UP CHILDREN .- When our children are babies we kiss and pet them, are unstinted in our expressions of love, but

us. The time may come very soon when eyes that would have brightened and lips that would have responded to our words of love will be closed and silent and all our after life be filled with unavailing MAIDA MCL.

SEASONABLE DESSERTS FOR THE FARMER'S HOUSEHOLD.

The great scarcity of fruit this year will render it trying on the country housewife, who has been in the habit of serving her family during the winter with fruit pies, rolls and puddings, as well as frequently having canned or dried fruit stewed.

For such households a number of very acceptable and healthy desserts may be made with milk, butter and eggs, all of which will be found economical and easy to prepare. We give the following recipes, from which a selection may be made to furnish variety during the winter:

BATTER PUDDING .-- One egg, one cup of sugar, two tablespoonfuls of butter, two and a half cups of flour and one teaspoonful of baking-powder. Mix well, pour in a mold and steam one hour. Serve with hard sauce.

Molasses Pudding .- One cup of molasses, one of sweet milk, four of flour, two teaspoonfuls of baking-powder, half a cup of butter. Boil or steam two hours. Serve with lemon sauce.

CREAM PUDDING .- Mix half a cup of white sugar with one grated lemon. Beat six eggs to a froth, mix a pint of flour with a pint of milk. Stir in a pint of cream, mix with the white of an egg. Pour in a buttered dish, bake five minutes. Serve with rich sauce.

Snow-Ball Pudding .- Boil one quart of new milk and thicken with rice flour. Beat the yelks of four eggs with three tablespoonfuls of sugar. Mix all, pour in a pudding-dish and bake. Bcat the whites of the eggs to a froth, add four tablespoon-





DETAILED PATTERN OF LEAVES.

rice; flavor with lemon. Drop in little balls over the pudding. Set in the oven

RICE PUDDING.—Boil a teacup of rice in a quart of milk, add a pound of sugar, half a pound of butter and six eggs. Flavor to taste and bake. Eat with but-

POTATO PIE.—Boil four large potatoes, rub through a sieve; to a pint of mashed potatocs add a quart of milk, a teacup of sugar and butter each, a teaspoonful of lemon extract and half a grated nutmeg. Pour in pie-pans lined with rich crust.

CHOCOLATE PIE.-Take four tablespoontoo often as they grow older, although fuls of chocolate, one pint of boiling water; let it simmer for five minutes and add the yelks of two eggs, two tablespoonfuls of corn starch and six tablespoonfuls of sugar; mix and boil until thick. Line pie-Pans with rich crust, bake and pour in the chocolate. Beat the whites of the eggs with powdered sugar, spread on top of the pie and set in the oven to brown. Serve cold.

SUGAR PIE .- Two cups of brown sugar, half a cup of butter, half a cup of cream, three eggs. Flavor with extract of lemon. Bake in crust without a top.

CREAM PIE.—Beat the whites of two eggs, a tablespoonful of flour and a teacup of sugar together; add a pint of cream. Bake in deep pie-pans. Grate nutmeg over the top.

CHEESE PIE.—Beat a cup of sugar, three eggs and a cup of butter together, flavor with lemon. Bake in a rich crust aud spread over with the beaten whites of egg sweetened.

FARMER'S CREAM.—Dissolve half a box of gelatine in half a pint of milk; beat six eggs very light, mix the yelks with boiling milk, add the gelatiue, sweeten and flavor. Pour the whites of the eggs, well beaten, over the top. Pour iu jelly-molds.

CHARLOTTE RUSSE.—Cut slices of sponge cake and fit in the bottom of a mold, fill with one pint of whipped cream, sweetened and flavored, mixed with two eggs and half a pound of sugar. Set on ice.

ELIZA R. PARKER.

FASHIONS.

After a good stay in two such capitals of millinery as Paris and London, even so unfashiouable a traveler as I am may be considered a modest authority on gowns, trimmings in fine gold braid or black wraps, flowers and flummery generdirections and hints that ought to be of value. In the matter of colors, blue, heliotrope, brown and green in many shades are in the first favor. Heliotrope, or rather purple in the prune and mauve shades, is perhaps iu highest fashion. For the street, rough woolen goods and Scotch tweeds are almost entirely worn.

Plaids are mostly worn for street dresses and long cloaks, and these will be very rough, with here and there a splash of mohair or silk curl in loose knots upon the surface. The plaid goods are made on an exact bias, the bodices matching at every seam and buttoning either on the side or invisibly under the arm and on the shoulder. With plaid dresses are worn plaid cloth shoes, with kid or patent leather vamps or tips. Plaid cloaks or mantles reach to the edge of the dress, and are gathered full upon deep, V-shaped yokes of velvet, which have a finishing frill of pinked velvet and a high Medici collar. A handsome wrap of this sort was of plaid iu prune shades with a yoke of prune velvet; a more stylish one was of gray plaids and black velvet yoke.

Skirts are plain in front with small, interlaced plaits in the back and no tiebacks, hoops or bustles at all. Upon these plain skirts small hip draperies or paniers are placed. Evening dresses and carriage dresses have almost in every case paniers. A beautiful white silk has paniers, and under the arm gores of black lace. A French gown made for a New Orleans

BORDER AND FRINGE FOR TABLE-MATS.

Flanders lace. The train was about six inches only; with this was a Henri IV. jacket of black velvet, rather low in the high neck, with the square sides and full jabots of lace on the front, and heavy frills of lace on the tight, long velvet sleeves, the frills falling almost to the finger tips. From the shoulders hung square, loose sleeves of black lace. This gown was superbly stylish and elegant.

The most fashionable sleeve is called the "Sicilienne." It is full and large to the elbow and skin tight to the wrist. In combination suits the under half of the sleeve will be of the other color. Most of the stores sell velvet, silk and braided sleeves ready made, and many ladies add variety to their costumes by varying the sleeves in their gowns and jackets. As somebody says of Mrs. Grant's recent contribution to reminiscential literature, "This is, to say the least, unique." Henri IV. styles are in high favor.

There are wonderfully pretty capes with sleeves to them, and the waists of dresses have jabots and wrist ruffles and are finished at the edge with double satin, lined tabs or loops of ribbon or silk to match the gown. With such gowns a woman of taste can make herself look like some old picture and charm by the quaint fashion of her robes. A more conventional, but not less graceful, cut for bodices is to gather the full front into a V-shaped belt just below the waist line.

Crepe de chine is one of the graceful fabrics for evening dresses, and crepe de chine sashes, beginning up under the arm, are tied in long loops over the left hip.

One of the prettiest combination gowns we saw in Paris was of soft mauve cloth, with a Medici collar and Sicilienne sleeves of silver-woven cloth; with this were worn gray cloth shoes and a mauve hat covered with silver-gray plumes. Medici collars are sold separately and worn with almost every costume.

Pretty, silk waists in black, scarlet and electric-blue silk, with zouave-shaped

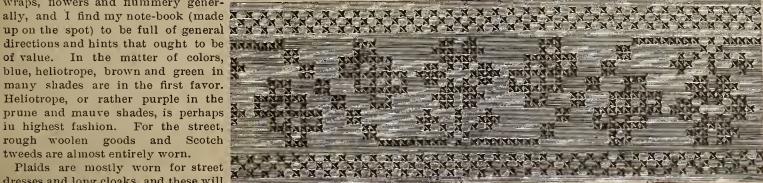
Persian lamb, put on broad or narrow, as vests and as collars .- Catherine Cole, in New Orleans Picayune.

FARMER'S BARN-YARDS.

Some day, when you have nothing else to do, take a ride through the country and count all the neatly-kept barn-yards you see. Even if you have other duties, go, if for no other reason than out of curiosity. In a ride of twenty miles you will not see ten half neatly-kept barn-yards, and not more than two-more likely not oneas it should be kept. You will see a wagon here, another there, over there a sled and in another place a hay-rack, flat on the ground, all ranged about the middle of the lot; and besides all these things you will see plows, corn-planter, harrows, small hav-stacks, piles of boards, rails, posts and many other things I cannot now enumerate, thrown around in a haphazard way that ought to put any farmer to shame. Not a blade of grass to be seen, when there should be a wellsodded yard.

In thinking of the many, many farmers lips and fever I have known, I can remember but one who has a well-kept barn-yard. And, as the yard indicates, he is a very methodical farmer. "A place for everything and everything in its place," is his motto, and the entire farm shows that his motto has become a reality, not a mere theory.

When he drives into the lot his wagon has a place of its own; each piece of machinery has its own place. Nothing is left in the center of the lot for a horse to run over and perhaps cripple itself. This barn-yard furnishes pasture for two work horses during the summer nights, and for



CROSS-STITCH FOR GINGHAMS.

passementerie, with tucked sleeves and four or five calves through the entire loose, bust draperies, forming a half vest or pouch, are worn with any colored skirts. Velvet wraps for calling and reception wear are covered with passementerie. They are V-shaped, short and gathered full with a sleeve effect over the

Street wraps have wide, braided sleeves, close backs and long fronts that reach far below the knees. Other stylish jackets are like Newmarkets, cut off short and just covering the hips. Hats are very large, bonnets are small and cap-like, resembling the coif Margaret Mather wore as Juliet. A new evening bonnet is of three bands of gray velvet dotted with jet acorns. Feathers and ribbons and lace feathers are used for trimmings, but neither flowers nor birds.

The "owl" is the name of a fashionable collarette that comes in cocks' feathers, ostrich tips, lace and silk, and there are pretty ones of roses for theatre wear. These are tied up in the throat with inchwas of exquisite hand-made silk wide ribbons. Lisse ruffles, four inches

wide, are fashionable for a few women who can wear a broad, turned-down ruffle in the neck.

A superb fabric for court trains and the front side bodies or under-arm gores of dress waists is satin de Lyon, in which are woven very large diamonds of gros grain in the same color. One of the most durable fabrics is Bengaline,

which is really only silk poplin. It is extremely fashionable for wedding dresses. Apropos of dress goods, most of the foreign shops sell silk and satine and linen dress foundations ready made, upon which the home dressmaker has only to drape her material. Ruchings in pinked silk or lace are sold by the yard to trim the edges of ball-dress skirts; and quite the most fashionable trimming for street dresses is summer; yet, it does not contain over two acres. But the horses are never allowed to run in it when the ground is soft. Of course, it never becomes cut up and rough. The farmer has hauled plenty of gravel about the barn, and little or no mud is found there.

As most barn-lots are along the road in line with the house-yard, one would suppose as much care would be taken to keep them in order as is used on other premises. There is just where you are mistaken, as a ride will convince you. The house-yard may be perfectly neat and the adjoining barn-lot may be a perfect slough of filth and disorder.

Why do not these men realize that their lots are but blots on an otherwise lovely picture? Why not use a little forethought when driving in with machinery and vehicles? It takes no longer to drive a wagon to the same place each time, than it does to unhitch wherever the horses may happen to stop.

"But," says one, "I haven't room."

You think you have not room simply because your lot is in such a confused jumble that you do not know yourself how much room you have until you "size up," as the housekeepers say. Just try it once; if not for your own satisfaction, do so for the pleasure of the people who pass your place. At first they may make remarks and be inclined to wonder what can have taken possession of you, it is so unlike you to have order in your barnyard. But never do you mind their talk; when this systematic plan has become a habit with you, others may be led, seeing your "light," to "go and do likewise."

ELZA RENAN.

HAVE YOU CATARRH?

There is one remedy you can try without danger of Humbug. Send to H. G. Colman, Chemist, Kalamazoo, Mich., for trial package of his Catarrh Cure. His only mode of advertising is by giving it away. Postage 4 cents. Judge for yourself. Mention this paper.

Camel's hair in alternating stripes of long and short hair, or spotted with lozenges of longer hair, are in vogue.

COLD WEATHER HINTS.

HEAD.—A black silk night-cap will be found to be of great service on a very cold night. Headache can be warded off by keeping the head warm. As women grow into old age they should give up the tiny bonnets of their younger days and

adopt something min that will protect the back of the head and behind the ears. Wearing the hair taken up from the back of the head exposes the head very much. Even a slight illusion veil is a great protection against the cold and wind.



BROIDERY.

which we always keep on hand. Ten drops of carbolic acid in a tablespoonful of glycerine. When the first stinging sensation of a fever blister is felt, apply it immediately and it will kill it.

A lip salve can be made from the following recipe. Mix with two tablespoonfuls of sweet oil a lump of sugar dissolved in one and one half tablespoonfuls of rose

water, add a piece of spermaceti half the size of a waluut, simmer in a vessel set in hot water and turn into little boxes, which can be had at any druggists.

These little toilet accessories are only among necessities. Little sores allowed to go on are often very great annoyances, and often develop into something more serious.

HANDS.—It is not at all necessary that any work we do need make our hands so bad, unless we neglect them. Gloves should be worn at all outdoor work, even if a rude, home-made pair. Tak-

ing the hands from washing and going out into the wind to hang up clothes will be sure to chap them.

Using all sorts of strong soaps, bought because they are cheap, ruins the skin. If soda or borax were used more in dish washing, no soap would be needed.

A good, cheap remedy to keep on hand is, one half ounce each of glycerine and alcohol with four ounces of rose water added; bottle and shake well before using.

POWDER FOR THE FACE.—In the first place, do not use soap on the face. Rubit with sweet oil before going to bed and in the morning wash it off with hot water into which a few drops of ammonia are placed. Then dust it with corn starch, a perfectly harmless face powder, using a soft chamois or flannel to put it on with. A shiny face never has a very refined look,

BETTINA HOLLIS,

HOW TO MAKE A HANDY CUP.

Take a clean, quart can, unsolder the top, make a hole about one third the way from the top, large enough to admit an inch and a half screw, saw off one end of a commou-sized spool, hollow out the little end for the head of the screw, fit the screw through the spool end and through the hole in the can; now take the end of an old broom-handle, say six inches long, bore a small hole in one end for the screw, hold the screw with an old knife blade and turn the handle until tight.

FIG OATMEAL PUDDING .- Soak figs-say over night-in very little water, then slice and place alternate layers with hot oatmeal dough. Bake or steam an hour. Note.-Other varieties of either raw or preserved fruit may be used. To always retain a relish for so wholesome, nutritious and easily prepared food as the above, use only fresh meal. Do not use it too often. However palatable, avoid a surfelt.-Hammonton (N. J.) Mirror.

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Our Sunday Afternoon.

A HAMLET OF THE DEAD.

DARK, majestic wood is on one side, While close-cropped, meadow fields stretch far away:

The rank grass springs, the graves to hide, And gloomy cedars bar the light of day. No sculptured marble lifts its column toward the skies.

To mark the peaceful sleepers earthy bed; No wordy epitaph parades its group of lies, Within this quiet hamlet of the dead.

A thousand mounds, like emerald billows frozen in a gale,

Are green-topped tents wherein a people doth reside:

And each inhabitant, so quiet and so pale, Dwells with his peaceful neighbor, side by side.

No giddy turmoil e'er disturbs their holy rest; No men of trade with busy, noisy tread, And love of gold within each scheming breast, Invade this modest hamlet of the dead.

Along the leaf-strewn walks, the wild flower

The thistle nods across the rnined fence; And flitting through the green and shady

The lone bird chirps within the forest dense. But neither sight nor sound will e'er awaken

Who rest unconscious of the wintry wind

Or of the summer morning's balmy breeze-These dwellers in the hamlet of the dead.

Full many years have passed since first a few. Like hardy pioneers upon a foreign shore, Did rear their humble domiciles to view. In time there followed many, many more; And soon this quiet, verdant village full will

be; Room only for the stealthy night winds tread.

As passing swiftly on from tree to tree, It sings a requiem to the silent dead. -S. Q. Lapius.

RELIGION IN THE SCHOOLS.

ELEGATES from the twenty-three ecclesiastical bodies, representing nine denominations, recently met in New York City to discuss the question of introducing

religious and moral instruction into the public schools. The movement originated with the Presbyterian Synod, which, five years ago, appointed a committee to consider the matter and report. This committee was continued from year to year, and the movement at length culminated in an invitation to all other denominations besides the Presbyterian to send delegates to a conference. Of the fourteen denominations to which the invitation was extended, the Disciples of Christ, Congregationalists, Episcopalians, Independents, Lutherans, Methodists, Presbyterians, Reformed Dutch, Reformed Episcopalians, and Reformed Presbyterians replied that they would send delegates; the Unitarians, United Presbyterians and Universalists have made no reply, and the Baptists, through their New York State Pastors Conference, held at Lockport on October 28 and 29, unanimously decided by a rising vote not to take any part in the movement.

Two Presbyterian ministers appeared before the body as representatives of the Synod to invite the Baptists to meet with the committee on Religion and Public Education. The Baptists referred the matter to a committee.

The committee reported a series of resolutions, thanking the Synod for the invitation, and setting forth these reasons for declining to accept it:

"We believe that it is a manifest injustice to tax those who do not believe in religion for the maintenance of schools in which are taught religious principles which they do not wish their children to learn: and further, that the inauguration of such a system of religious teaching in our public schools, forms a valid argument for the division of the school funds with those who might not relish such teaching, thus resulting eventually in state support of schools in which the creed of Agnosticism, Buddhism, Confucianism, Judaism or Romanism might be taught.

"We believe that the state ought not to teach religion, because this would mean, in our age, religious instruction by unregenerate persons who do not know what true religiou is, and whose instruction would, in a large degree, be marked by hypocrisy, formalism, irreverence and error. We do not wish such persons to instruct our children religiously. The state should teach only that on which all are agreed, and should not invade matters Pittsburgh, Pa.

of conscience or religious opinion. If the state may teach religion in the schools, she may teach religion in churches of her own establishment. It is only on this broad ground that we can oppose those who would subtly instill Romanism or the creed of Agnosticism into our public instruction.

"We thus reaffirm the grand old Baptist doctrines of soul liberty for all men, as well as ourselves, and of the non-interference of the state with the church in her peculiar function of teaching religion."

"These resolutions," said the Rev. Dr. R. S. MacArthur last evening, "express the opinion, as I believe, of nearly every member of the Baptist denomination. The Baptists have always been consistent in their belief that there should be an entire separation between church and state, and so long as they remain so they can oppose, consistently, the demand of the Catholics for a share of the public moneys. Many Baptists even go so far as to oppose the law exempting church property from taxation. Yet I have long been of the opinion that a text book might be prepared embodying instruction on morality, and so worded that it would be acceptable to Protestant and Catholic, to Jew and Gentile. If, however, the instruction contained in such a book were to be based upon a belief in God, it would meet the opposition of the infidel. I believe that it is unfair and unjust to tax a man for the promulgation of doctrines in which he does not believe, and therefore would make the teaching of morality in the public schools a separate matter entirely from religion. The Baptists from the days of Roger Williams, have held tenaciously to the doctrine of religious liberty, and they are loath to do anything which might be construed as inconsistent with their past record.

WHEN JESUS COMES.

Some people seem surprised at the eagerness which Second Adventists display for the return of the Lord Jesus to this earth again.

But why should they not be eager for his return, when that return means reunion for the parted, immortality for the mortal, health for the sick, life for the dead, land for the landless, habitations for the homeless, plenty for the destitute, bread for hungry, water for the thirsty, sight for the blind, hearing for the deaf, speech for the dumb, strength for the weak, youth for the aged, liberty for the weak, youth for the aged, therety for the captives, riches for the poor, "beauty for ashes," "a garment of praise for the spirit of heaviness," "the oil of joy or morning," peace for the troubled, rest for the weary, gladness for the sorrowing, songs for the sighing, society for the friendless, perfect bodies for the crippled, mansions for huts, crowns for crosses, light for darkness, wisdom for ignorance strength darkness, wisdom for ignorance, strength for weakness, harmony for discord, with an eternal inheritance in the kingdom of God for all his ransomed people.

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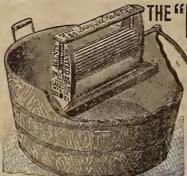
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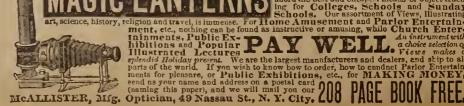
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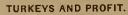
THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey

A LAMP BROODER FOR CHICKS.

E give an excellent brooder by Mr. D. M. Palmer, New York, in this issue, as used by him the past season. It is 4 feet long, 22 inches wide and 18 inches high on one side and 24 inches high on the other side. The box for the lamp is 12x16 inches inside. Tho brooder box has au open bottom, but the cover fits tight, tho top having two or three inches air space over the tank, should the top bo level. The water-tank (Fig. 2) is made of galvanized iron, one inch deep and 12x54 inches. The standpipe is 8 inches loug, made large enough to insert the neck of a quart bottle in the

Any house lamp can be used, the top of the chimney being half an inch from the underside of the tank. The tauk is covered with cloth or bagging, sewed on close and tight. The mother is a frame, made of pine, covered with paper or tarred felt, with woolen, cut in strips, tacked on the edge, and when in position



With the good prices now being obitem in the profits.

One of the most important aids to securing a large number of eggs in the winter season, though not so frequently mentioned as the warmth and the food, is scratching. When the hens do not scratch nothing to the fowl that tends to a profit,

casses should be shipped in one lot. If there are any inferior fowls to be shipped it is better to sell them alone, and at a sacrifice, than to allow them to influence the prices for the choicer carcasses.

LICE IN WINTER.

The large, gray louse preys on the skin of the heads and necks, and the long louse works on the feathers. A few drops of sweet oil, or lard oil, on the skin of the heads and necks is the remedy used. Provide a dust bath for the hens in winter, as they will then keep the feathers clean by frequent dusting.

THE GRAINS TO USE.

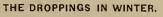
As is well known, fowls will eat all kinds of graiu. Do not confine them to one kind. Corn, wheat, oats, barley, rye and sunflower seed, given at different times, make better food than to feed them on any one kind alone. The hens will always appreciate a change of grain, and will thrive better and be more prolific, when given a variety.

THE FEED AND WARMTH.

The warmer the poultry-house the less food required. It does not pay to feed hens simply to keep them warm. It is cheaper to warm them by keeping the cold away. Warmth is a luxury; adds

> and is given offas fast as it is created. Food should be given with a view to securing some return for it. It is not economical to stop up a crack in the wall of a poultry-house by mitigating its effects through an extra allowance of food, but the crack should be

lessened. Food is money expended and should bring back something for the



What to do with the droppings and how shall they be preserved, is a matter for consideration. One of the easiest and best methods of disposing of them is to scatter them on the garden plot, and there let them remain on the ground during the winter. If the plot has been spaded or plowed, so much the better. As there is always a loss of ammonia from the droppings when they are stored away, the plan of scattering them on the garden whenever the poultry-house is cleaned is as good as any other method, and perhaps better.

GROUND FOOD.

There is but little advantage in feeding ground food, as the fowls need no aid in the matter of pulverizing their food, the gizzard doing that service well; but there are some foods that can easily and cheaply be procured in the ground condition, such as bran and middlings, which make excellent food for all kinds of poultry. Bran is very beneficial, as it contains more mineral matter than some ground foods, and is, perhaps, as cheap as anything that can be given. Fowls, however, prefer whole grains.

INQUIRIES ANSWERED.

Food for Pekin Ducks.—S. A. W., Plymouth, Mass., writes: "Will you please tell me the best food for Pekin ducks for laying, and for the young ones? Are they very tender or hard to raise?"

REPLY:-Cooked turnips, to which corn meal and bran may be added, are excellent. They require some animal food, such as ground meat,

three times a week, and chopped clover (very fine, and scalded) is excellent. Feed old and young on anything they will eat. The Pekin is bardy and easily raised.

Result of Dry Food.—J. D. R., Medora, Ill., writes: "I have a very fine Plymouth Rock rooster which is affected nearly like a person with piles. He first showed signs of trouble in passing stools about a month ago, and passed blood, and still does so, and the rectum seems to be protruded an inch. He has had plenty of range and good water. Some others seem to be similar, but not so bad. What must I do for him?"

The use of green food will prevent the trouble. Give each fowl a tablespoonful of linseed



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are our figures, and that no better, substantial, durable small mill can be found. Address the old stand,

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tained for turkeys, they pay a large profit, dospite the difficulty of raising them when they are young, for a flock that has had a free range will pick up nearly all the food that was eaten. It is just as easy to raise a largo turkoy as to keep a small one, and you should aim to improve your flock next season by procuring a Bronze gobbler, which adds vigor to common flocks, as it is a complete change of blood. We do not advise the use of pure breeds, but to cross, as the pure breeds are sometimes themselves closely inbred. Unless the gobbler is procured from some flock of pure-bred fowls, there will be a liability of a waste of time, as a halfblood male is utterly useless for purposes of improvement. Keep the largest and best hens for breeding, and aim to have a fine flock. The profit will then be larger than when only the ordinary, common kinds are used, as a gain of only two pounds on each turkey is quite a large

AN IMPORTANT POINT.

A LAMP BROODER FOR CHICKS.

lies on top of the tauk. The mother is a little smaller than the inside of the brooder-say five or six inches. Use a sliding platform for the chicks and set it, at first, three inches lower than the underside of the tank, and lower the platform half an inch every ten days.

The illustration shows a double brooder, with tight partitions in the middle, and with openings for the chicks ou opposite sides. The chicks in each brooder have separate runs. To set the brooder, have the end over the lamp (three quarters of an inch the lowest from the top of the lamp, but half an inch is better), and the water will freely circulate. Fill the tank to the top of the stand-pipe, then fill a bottle with water and place the neck of the bottle in the opening of the standpipe (which gives pressure to the water), and the circulation will be complete. When chicks are very young, keep the inclined plane raised up.

This brooder is an improvement over many others, as it hears with but little oil, and one need not go to the expense of a boiler. Chicks raised in it had no leg weakness and grew splendidly.

In Fig. 1, AAA show the tank, B the lamp, D the movable platform, E the inclined plane (or run), and S the standpipe (which is also used for filling the

In Fig. 2, the tank is shown, A being the end that goes over the lamp and S shows the stand-pipe.

The sketch shows one half of the cover removed, and also the side left open to have a view of the inside.

FROZEN FOOD.

Do not feed an ounce more than the fowls will eat. Anything left over will be wasted. The hens cannot eat frozen food, and they trample it into the droppings. As soou as the meal is finished, the troughs should be emptied, if soft food is given. It is better to use soft food but once a day, thereby saving labor and waste.

SWOLLEN EYES AND HEADS.

This difficulty will now be frequent, and is usually caused by draughts or currents of air from some source. The top ventilator is one of the causes, and high winds will also induce it. Anoint with one or two drops of a mixture of spirits turpentine, one part, and sweet oil, three parts, once a day.

they do not lay, which shows that it is closed in some other way, and the food necessary to provide some kind of litter for them, and also some suitable place in which they can scratch. It will not do to keep a lot of hens in a dark or uncomfortable building, and expect them to be busy and lay. They prefer a light, dry, roomy place, where each hen can exercise freely, and without hinderance from the others. They will never care to scratch, however, if they are fed every time they appear huugry. They must be compelled to scratch and work for their food. We do not advise the limiting of the food. Give them plenty, but only in the litter, where they must work and scratch for each grain. Throw the grain in leaves, cut straw, cut hay, or any kind of litter, and at night give them a good feed in the trough, composed of a mixture, but during the day make them work and work hard. At first they may not be inclined to accept such conditions. but unless they scratch let them go hungry. Scratching means eggs, for it keeps them in health.

EARLY MATURITY OF PULLETS.

The pullets that are not beginning to lay will be slow coming in from now until spring, and should be sold if the combs do not show iudications of laying. All early pullets should now begin to display bright, scarlet combs, and be fully

GRADING THE POULTRY.

Farmers are not aware of the losses they annually sustain by not grading the poultry sent to market. When you send a lot of dressed fowls to market, and some of them are not plump or attractive, they injure the sale of the entire lot. A few

choice carcasses will not assist in selling a lot of poor fowls, but the poor stock reduces the value of the whole. The commission merchants understand this fact, and when they buy they always assort and grade it.

Customers differ in their desires, and to please them some pains must be taken. There are customers who seek the largest turkeys to be found in market, but the majority prefer turkeys of medium size. When chickens are sold, many customers buy those with yellow skin and yellow legs. Such carcasses should be separated from the others. All of the very fat car-

REPLY:-The difficulty is due to costiveness. meal three times a week (gradually reducing meal three times a wee

Queries.

Questions from regular subscribers of FARM AND FIRESIDE, and relating to matters of general interest, will be answered in these columns free of charge. Querists desiring immediate replies, or asking information upon matters of personal interest only, should enclose stamps for return postage. The full name and post-office address of the inquirer should accompany each query, in order that we may answer by mail if necessary. Queries must be received at least two weeks hefore the date of the issue in which the answer is expected. Queries should not he written on paper containing matters of business, and should be written on one side of the paper only.

Language Without a Teacher.—M. E. M., Purcell, Ind. Ter. Write to Estes & Lauriat, Boston, Mass., for circulars of information about the Meisterschaft System.

Pure-Bred Sheep.—H. F. K., Roaring Spring, Pa. You will find pure-hred sheep of all hreeds advertised for sale in the Breeder's Gazette and American Sheep Breeder, both published in Chicago, Ill.

Hen Manure.—C. L. P., Saccarappa, Me., asks how to compost hen manure to make a good top-dressing for coru and heans. Save it in hoxes or barrels mixed with plenty of land plaster to absorb the ammonia. Before applying, pulverize it and sift it through a coalsieve. It is sometimes saved by mixing it with day much in the proportion of one to with dry muck, in the proportiou of one to

Catalpa Seed.—J. C., Pleasant, Ind. You can get catalpa seed and the seed of other forest trees from nurserymen and seedsmen. We think it would be hetter for you to purchase small seedling trees and set them out in the spring than to grow the trees from the seed. Some nurseries make a specialty of raising forest trees. R. Douglas & Son, Waukegan, Ill., and George Pinney, of Evergreen, Wis., sell seedling forest trees of all kinds.

Mixing Ashes with Stable Manure.—
M. W. W., Martinez, Cal., writes: "After using stahle mannre, does it prevent the effects of it to use wood ashes freely on the same?"
REPLY:—Au application of wood ashes on ground heavily manured will hasten the action of the manure. The ashes will set the ammonia free from the manure, but the soil will absorb it. In composting manure, do not use ashes unless you also provide absorbents to hold the ammonia set free.

Raising Flax.—A. S., Harrisonville, Mo., writes: "A great amount of flax was sown here last season. There is an opinion prevailing among the farmers here that laud which has produced a crop of flax will not produce another good one within five years. Is it so?" REPLY:—No, not exactly; but flax is a very exhaustive crop and should not he grown coutlinuously on the same ground. It is not a very profitable crop except for rich land, and where you can dispose of both seed and straw.

where you can dispose of both seed and straw.

To Keep Rabbits from Young Fruit Trees.—E. R. M., Wilbur, Wash., writes: "I have a nursery that is troubled with rabbits. I have heeu wrapping the trees with paper, but it is so much work that I would like to find out an easier way. Would it do to nail precess of narrow hoards together and set them dean over the trees?"

REPLY:—A nursery should be protected by a rabbit-proof fence. The woven slat and wire fence is a very good one for the purpose. It is in use in southern California for protecting young vineyards. Surround your nursery with such a fence, leaving a portion at one concropen. Then get up a rabbit drive and send them all out. Close up your fence, and fix yourgates with weights so that they will swing shut. As long as you will keep the gates closed when not in use and the fence in good repair you will not be troubled. Rubthe young trees with sulphur and lard, and rabbits will not touch them.

VETERINARY.

**Conducted by Dr. H. J. Detmers. ** Veterinarian of the Ohio Agricultural Experiment Station, and Professor of Veterinary Surgery in Ohio State University.

To regular subscribers of FARM AND FIRESIDE, answers will be given through these columns free of charge. Where an immediate reply by mail is desired, the applicant should enclose a fee of one dollar, otherwise no attention will be paid to such a request. Inquiries should always contain the writer's full address, Queries must be received at least two weeks before the date of the issue in which the answer is expected. Subscribers may send their veterinary queries directly to DR, H. J. DETMERS, 35 King Avenue, Columbus, Ohio.

ophthalmia.—I. I. M., Prairie Station, Miss. I refer you to inquiry headed, "Going Blind," in paper of December 15th. No cure

Worms.—R. A. H., Marlenfeld, Tex., writes: "Can you tell me how I can cure worms in horses? I have two horses that have worms in the rectum about two inches long."

ANSWER:—Make jujections of raw linseed oil into the rectum.

Castration of Three-year-old Ram.-T. B. R., Honeton Hill, —. The operation, if properly performed, is not particularly dangerous, but whether you will gain very much by lt, is another question. It may be performed at any time.

Probably an Epithelioma.—J. A. P., Superior, Neb. The tumor you complain of, very likely, is an epithelioma. To remove it, a surgleal operation will be necessary, which, however, requires a good surgeon to perform it. The member, probably, will have to be applied to the computated. amputated.

Paralysis of Hindquarters.—T. Q., Glade, Pa. An inquiry similar to yours has been answered in issue of December 15th. In cases lu which paralysis is only apparent, and due to weakness of the bones, feeding bran and other substances rich in lime salts may have a good effect.

Lice on Cattle.—A. B. Broadalbin, N. Y. Since it is winter and the weather, very likely, too cold to apply a wash, I advise you to use Persian insect powder and apply it hy dusting it in between the hair by means of an insect-powder syringe, which can be obtained in almost any drug store.

Probably Vertigo.—P. P., West View, Ohio. The disease complained of seems to be vertigo; still, the attacks may be of an epileptic character. Your description is not sufficiently to the point to decide. Both diseases are incurable unless the cause can he ascertained and be removed, which is hut very seldon the case. seldom the case.

Founder.—C. F. C., Milldale, Conn. Founder, or laminitis, can be successfully treated (cured) only when of less than three days existence. In chronic cases some relief may be given by judicious shoeing—putting on harshoes. See auswers to similar inquiries in recent numbers of this paper.

Luxation of the Patella.—W. M. M., Fox Lake, Wis. Your horse, undoubtedly, suffers from a partial luxation of the patella (kneepan), which slips out and in if au awkward movement is made. For information as to treatment I have to refer you to the answers given to similar inquiries in recent numbers of this paper.

Shipping Brood Mares.—J. M. C., Lexington, Mich., writes: "Would mares in foal be likely to be injured by being shipped on a freight train five hundred miles?"

ANSWER:—It altogether depends upon circumstances—npon the precautions taken, the treatment the animals receive and time intil foaling. If the latter is near at hand, I would regard a transportation of five hundred miles by rail as risky.

Enemas — Physiology. — P. W., Mount Brydges, Ont., Canada, writes: "Are enemas ever practiced on horses? — Please give the physiology of the digestive apparatus of the horse."

Answer: — Enemas, where indicated, are given to horses as well as to other animals.—As to your other request, I have neither space nor time to comply with it hy writing a lengthy treatise on physiology. Buy a book on physiology of domestic animals and study it.

study it.

Cribbiug.—W. P. C., Waverly, Ohio. Your mare, it seems, has developed into a cribber. Cribhing and wind-sucking coustitute a had habit, which, once acquired, is hardly ever abandoned. There are several devices by which it may be temporarily prevented; for instance, lining the boards of the feed-box or manger with sheepskin with the wool on, putting a spring bottom in the manger, buckling a leather strap around the neck of the animal, etc. But all these, as well as other devices, have only a temporary effect. Once a cribber always a cribber.

Cattle Disease .- G. S., Prince George C. H.

Cattle Disease.—G. S., Prince George C. H., Va., writes: "There is a disease among the cattle in this neighborhood. I have one that is nearly blind and so weak that it staggers and sometimes falls."

Answer:—You probably exaggerated the symptoms given—the weakness, staggering, falling down and quivering (of muscles)—or omitted and overlooked other symptoms of importance. If not, I do not know of any such disease to which the symptoms as given would apply. If you exaggerated, it may be ophthalmia, concerning which I refer you to a recent number of this paper.

Scab iu Sheep.—N. P., Clark's Mills, Pa. A

a recent number of this paper.

Scab iu Sheep.—N. P., Clark's Mills, Pa. A thorough dipping in a good tohacco decoction, to he repeated on the sixth day, and at the same time a thorough cleansing of everything on which the scab mites may have been deposited, or, still hetter, a removal of the dipped sheep to uninfected premises, will effect a cure. In cold weather, when dipping, very likely, would be too severe on the sheep, it is advisable to resort to a palliative treatment until warmer weather sets in, and to apply, now and then, or as often as necessary, some strong or concentrated tobacco decoction to the plainly diseased parts of the body, and to wait with the dipping until the weather is warmer. warmer.

Kameness.—J. R. T., Palmyra, Ohio, writes:
"I have a colt six months old, that has been lame about two weeks. Its fore feet are both enlarged between the ankle and hoof, and feel hard like ringbones. The ankles commenced to swell up. They appear stiff. It is trouhled with worms, hut in other ways it appears to he perfectly healthy."

ANSWEE:—The disease, it seems, is either rhachitis or ringbone. If the former, feed food rich in phosphate of lime; for instance, bran, etc., and apply iodine preparations—tincture of iodlne, for instance—to the enlarged points. If the tincture is chosen, it may be rnhbed in once a day. If it is ringhone, I regard the colt worthless—not worth raising. In regard to wortns, I refer you to the answer given to inquiry headed "Worms," in present issue. present issue.

Retained Afterbirth—Young Bulls.—Carlisle, Ark. If cows do not clean within three days after parturition, as it happens quite often in cases of premature birth, the afterbirth may either be removed by hand (an operation which can be performed without injury to the cow only by an expert), or else its removal may be promoted by a few doses of ergot, in the shape of a warm infusion prepared from an ounce of freshly-powdered secale cornutum. At the same time, injections of warm camomile tea and afterwards antiseptic injections, should he made into the uterus. The latter may consist of a one-percent solution of carbolic acid. This latter treatment, however, is not always successful, and to be preferred only when, for one reason or another, the removal by hand is Impracticable.—Concerning the age when young bulls should be first used, the answer would depend upon the breed, constitution and physical development of the young animal.

**Navicular Disease—Colic.—C. F. P., Chapman Kan, Your one-stone.

depend upon the breed, constitution and physical development of the young animal.

Navicular Disease—Colic.—C. F. P., Chapman, Kan. Your question is difficult to answer. So far, none of the various treatments proposed has met with much success. Judicious shoeing and good care of the feet will give a little relief, but a little only, and it will depend entirely npon circumstances and upon the peculiarities of the case what treatment, if any, is to be applied. Some claim to have heen successful with counter-irritants, some with Sewell's seaton through the frog, and others advocate a cuttling of the nerves leading to the diseased parts. The latter, of course, relieves the pain, but the morbid process is not removed; the foot will be like a wooden one, and is apt to undergo serious degeneration, and may even mortify. If you want to do something, I advise you to consult a veterinarian, who can examine the case and treat it accordingly.—It is difficult to prevent colic in an animal that is subject to it and has had several attacks. Strict regularity in feeding, glving only such food as is wholesome and easy of digestion, and clean well water to drink, and then seeing to it that the work the animal has to perform is as regular and uniform as possible, is the best that can be done.

Bad-Flavored Milk.—L. S. Independence.

place, free from any odor. Once or twice a week she gets a mess of either cabbage leaves, beets or potato peelings."

ANSWER:—Omit feeding oil cake, cabbage leaves, heets and potato peelings, perhaps also the oats; feed less milk-producing food, and endeavor to get your cow dry. The milk secretion is too much forced, and the milk is getting too "old."

cretion is too much forced, and the milk is getting too "old."

Paralysis in the Hindqnarters.—B. F. C., Williamsburg, Kan., writes: "My mare was running in good pasture and was looking fiue until about two months ago, when I discovered that something was wrong with her. When she put either hind foot to the ground while walking there would he a quivering or a trembling along the leg from the thigh down the muscle of the leg on the outside. She seemed in some pain, would eat grass awhile and then lay down. I took her np, gave her some medicine and in a day or so she seemed better; the quivering sensation was gone, and I turned her back in the pasture. I saw she was not looking very well, but could not see that anything particularly ailed her, until about two weeks ago I discovered that she seemed weak in her hack and loins, or, at least, when she walks she appears weak in her hind parts. When she walks her hind parts reel around to one side or the other, and going down a sloping place her hindquarters will stagger around so as to almost turn her around. She eats heartily, digests her food well, has no fever and her lungs are all right."

Answer:—The disease is paralysis in the hindquarters, and the seat of the morbid changes is probably either in the spinal cord or its surrounding membranes. You may apply, if you choose, a good counter-irritant above the lumbal vertebræ. Oil of cantharides, the composition of which has been repeatedly given in these columns, will answer, and if chosen, the application may be renewed on the fourth day. Still, a cure is but seldom effected.

Exostosis.—J. N. D., Cedarville, Cal., writes: "My horse has a lump on his jaw, which I first

the fourth day. Still, a cure is but seldom effected.

Exostosis.—J. N. D., Cedarville, Cal., writes: "My horse has a lump on his jaw, which I first noticed ahout eight months ago. It is about four inches from the fork of the jaw on the edge of the bone. When first noticed it seemed to be a hone growing ont from the jaw and was ahout the size of a lead pencil and one half inch long. It is now as large as a small marble and seems to he hroken loose from the bone."

Answer:—The enlargement (lump) you describe seems to be an exostosis (an outgrowth of the hone). To remove it requires an operation. The skin has to be opened with a sharp knife, to be cut loose from the bony growth so as to lay the latter hare; then the growth is to be removed, according to circumstances, either with a fine saw, with a strong and sharp knife (a good hoof-knife will answer), or with chisel and mallet. If the latter are used and spliuters or a rough edge are produced, the same must be removed with a knife. After this has been done, the wound is to be cleaned with a five-per-cent solution of carbolic acid; superfluous skin has to be removed so that the borders of the wound exactly fit if drawn together; a few stitches are put in, and then the hlood, etc., is washed off with the carbolic acid solution. Want of space forbids to give a more detailed description. It may be necessary to throw the animal for the operation. If, however, the same is naturally quiet, a good twist on the nose may be sufficient to make it possible to perform the operation on the standing animal.

Puerperal Fever.—H. R. G., West Middlesex, Pa., writes: "I ask for the name and

Puerperal Fever.—H. R. G., West Middlesex, Pa., writes: "I ask for the name and treatment of a disease among cows. It attacks them ahout twenty-four hours after calving. They become weak and finally stagger and fall down and soon die."

Answer:—Your cows have died from puerperal fever, or so-called parturient apoplexy. If your cows are good milkers and in an extraordinarily good condition, reduce their food three or four weeks before calving, and for two weeks afterward leave them their calves for at least a week or ten days after they are born; and last, but not least, keep your stable scrupulously clean, dry and well ventilated, and further attacks, very likely, will not take place. If they should, in spite of the precautions, inject a gallon of a blood-warm solution of corrosive sublimate, I to 1,500, into the nterus as soon as the very first symptoms make their appearance, but do not use a tin or other metalic vessel or syringe in preparing or injecting the solution.

Worms.—C. P., Pavillon, N. Y., writes:

Worms.—C. P., Pavilion, N. Y., writes: "Can you tell me what kind of a worm the enclosed is? They are troubling my four-year-old mare. She passes them quite freely and her coat looks dull. She is in moderate flesh. I also have an old mare that is troubled in the same way. What shall I give to destroy them?"

in the same way. What shall I give to destroy them?"

ANSWER:—I canuot tell you, hecause the worm you sent in your letter arrived in a shrunken and dilapidated condition. It looks, though, like one of the strongylidæ. Worms in the rectum are hest removed by one or more injections of raw linseed oil—a pint or more of warmed oil to he injected at once. Worms in the interior part of the intestinal canal require internal medicines. If in horses, one or two good doses of tartar emetic, two or three drachms for a dose, combined with powdered dicorice root and powdered marshmaltow root, and given in the shape of pills, will answer. It is necessary, though, to give the medicine on an empty stomach and tolet the animal fast for six hours afterward. In order to restore the affected animals to health and to a good condition, also to prevent a further invasion of the worm brood, it will be necessary to feed nothing but what is sound and good, to give pleuty of good oats, to water exclusively from a good well, avoiding all water from ditches, stagnant pools, etc. It is principally the latter that contains the worm brood.

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In the Commist, Land Commist, Lansing, Meb. Thousands of our readers who have each received one of these knlves agree with us in saying it is the best knife ever offered for the price. The two blades are made of the best grade of crucihle tool steel, being up to the highest standard in quality and finish. The knife has a rubberoid handle, which is much superior to either bone or wood. It is very neat in appearance, and is the product of superior American workmanship. It is constructed on scientific principles, andeach knife warranted by the nearly factor.

Thousands of our readers who have each received one of the skinles agree with us in saying it is the best knife ever offered for the price. The two flats calf in April, 1889, and will not come in again until the last week in March next; she gives about oue quart at a milking, morning and evening, is eight years old and in fine condition. She has all she wants to eat of best clover and timothy hay three times a day, and cats heartly. She also gets a warm mess consisting of about two quarts of oats and corn, ground, one pint of middlings, one half pint of oil meal and a pinch of salt twice a day; each mess scalded about twelve hours before feeding. She drinks two palls of clear well water per day, stands in a comfortable stable, well bedded, is let out in the yard for exercise whenever the weather is pleasant. She was dry about eight weeks, last time, and for awhile before calving, her milk had a similar taste. The milk is keptin a cool, clean The Knife for the Million. and each kuife warranted by the minimizaturers as absolutely perfect. Only by buying in very large quantities are we able to offer them at this price. If not satisfactory, return the kuife and we will return the money.

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Premium

No. 549.

Our Miscellany.

"SENDIN' HIM OUT IN THE WORLD."

"William," the brown-haired matron said. As she stood in the kitchen door,

"There's a vacant chair by the table to-night, That's never been vacant before."

She wiped a tear from her hazel eye, And turned to walk away-

"Katie," he said, "the baby, you know, Must be a man some day."

That morning the boy of their happy years Had gone from the farm-house door, To try his hand in the world's broad field, And double his talents o'er.

For years he had lived and loved with them, And lifted each load by the way-But brothers were there, and "the baby, you

"Sendin' him out in the world,"

When life's dull hopes are low.

Must be a man some day."

So they tled his clothes with a tender care And brushed back the hair that curled-The mother wept as she whispered low-

'Tis a solemn thought for a mother to think, As she watches the baby grow-Some day these hands shall till and toil,

Some day these dimpled, dainty cheeks Shall brown in the burning sun, As far away from a mother's care Hls duties must be done!

Some day, when manhood's high estate Comes on with flags unfurled,

The mother will sigh as she sweetly thinks-"Sendin' him out in the world."

-Bert W. Huffman, in Oregon Scout.

BEECHAM'S PILLS cure Slck-Headache.

Don't worry, as it Interferes with the healthful action of the stomach.

To prevent lockjaw, smoke the would with burned wool or woolen clotii.

Horses will thrive better if a lump of rock salt is kept constantly within their reach.

It is not always good policy to eat what you crave. Eat what you know agrees with you and avold all else.

EAT to live and do not take any more food than you find to be necessary to maintain health and strength.

A DISH of plain, nourishing soup is a wholesome first course at dinner, as it warms and invigorates the stomach.

For the making of good bread, three things are indispensable-the right kind of flour, good yeast and careful baking.

EVERY owner of live-stock and every marrled woman should see the advertisement on this page, headed by grandpa and his big hat.

A SMALL box filled with lime and placed on a shelf in the pantry or closet will absorb dampness and keep the air in the closet dry

Be ready for Christmas. The New Parlor Game beats everything for men, women and children. The Elastic Tip Co., Boston, Mass., will mall you the Game for 75 cts., if your dealer has not got lt.

NEVER put away food in tiu plates. Fully one half the cases of poison from the use of canned goods is because the article was left or put back iuto the can after using. China, eartheuware or glass is the only safe receptacle for "left overs."

OIL of peppermint in water, diluted even to one part In one million, will kill cockroaches in an hour, they dying in convulsions. One drop of the oil placed under a bell jar covering a cultivation of cholera bacilli will kill both bacllli and spores in forty-eight hours.

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"None at all."

"Why, how can you say your prospects are first-class?"

"Weil," said the editor, in a confidential whisper, "I've just started, you see, and haven't had time to canvass the county, but I know my prospects are good. I had not been In the town twenty-four hours when the mayor called and appointed me superiutendent of streets; the minister prayed for me and elected me a member of the church charity board; the schoolmaster invited me to deliver a commencement address; the proprietor of the hotel invited me to dinuer, and the whole town voted me a free lot in the cemetery. Ain't this doing first-class? 'We are here, and here to stay!""-Ex.

CONSUMPTION CURED.

An old physician, retired from practice, had placed in his hands by au East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and all Throat aud Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering, I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. Noyes, 820 Powers' Block, Rochester, N. Y.

A WIFE'S DISCLOSURE.

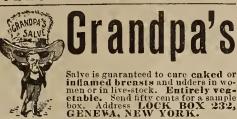
A wife recently gave her husband a sealed letter, begging him not to open It tlll he got to his place of business. When he did so he

"I am forced to tell you something that I know will trouble you, but it is my duty to do so. I am determined you shall know, let the result be what it may. I have known for a week that it was coming, but kept it to myself uutil to-day, when it has reached a crisis, and I cannot keep It any longer. You must not censure me too harshly, for you must reap the results as well as myself. I do hope it won't crush you."

By this time the cold perspiration stood ou his forehead with the fear of some terrible, unknown calamity. He turned the page, his hair slowly rising, and read:

"The coal is all used up! Please call and ask for some to be sent this afternoon. I thought by this method you would not forget it."

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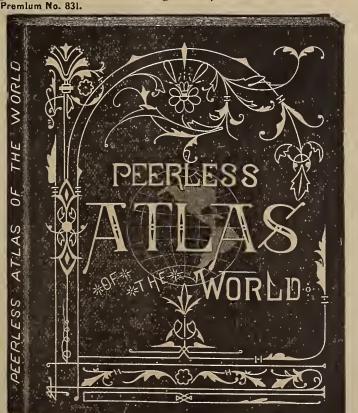
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Oh, Bilkins is a sad, droll dog, He really makes me laugh; And those who think they know him well, They do not know him half.

I lately met him in a car, And saying, "By your leave,"
I brushed away a long, black hair, That nestled on his sleeve.

"Dear me, how long my hair has grown; I'll have it cut," he said; Which made me smile, considering that

His hair is short and red.

STARTLING A STRANGER.



us on the promenade deck, and he had no sooner caught sight of the native than he called to one of the deck hands to toss him up a potato. A peck or more of the tubers were lying loose near a pile of sacks, and one was quickly tossed up.

"Now see me startle him," said Smart Aleck, as he swung his arm for a throw.

The distance was only about a hundred feet, and his aim was so true that the potato landed on the native's head with a dull thud. His motions were so quick that we couldn't agree as to how he did it, but in about three seconds he had dropped his fish-pole, pulled a revolver as long as his arm, and fired at Smart Aleck. The bullet bored a hole in his silk hat, just above his hair, and the young man sank down in a heap and fainted dead away. When we restored him to his senses he carefully felt of the top of his head, looked back at the fisherman and absently asked:

"Did she explode both boilers, or only one?"

THE REASON WHY.

A well known newspaper man, of this city, whose custom it is to take long walks in the country, was out last Sunday, says the Washington Star. As he passed an orchard he noticed all the trees but one well filled with

"That's strauge," he remarked to his com-

"What's the reason, do you imagine?" asked

the other. "Here comes a boy. I'll ask him," and the

journalist tackled the boy.

"Fine apples you have for an off year," he sald, with an air of freedom and acquaintance with the facts.

"Kinder," replied the boy.

"Where do you sell them mostly?" "Mostly don't sell 'em. Make cider."

"Ah, are they cider apples?"

"Course; couldn't make ciderif they wasn't." "Very true. By the way, my boy, I notice one tree over there by the fence hasn's an apple on it. Do you know why that is?"

"I reckon."

"Well, my friend here and I are a little curious and would like to have you tell us if you will."

"Certainly. It's 'cause it's a pinm tree, mostly."

The man of inquiring mind hung his kodak over his shoulder and went on.

THE INDIAN COMMISSION.

On hearing the evidence of "Snowball-in-the-England with Cody's wild west show, the commission broke into emotion too deep for utterance. He said:

"I am bursting with emotion, and nothing but my war-whoops hold me together. You notice the quiver in my voice. It is all the quiver I have left. Soon the United States will be left with 'nary red' and will not be worth a single Sioux. We are broken-hearted at the white man's scorn; corn, I may say, distilled into a robust form of drink. Our Blackfeet are disappearing over the mountains, our Flatheads are marks for the white mau's little hatchet, and our Snakes are all in our boots. The Crows have caws for their complaint. If we strike, they ring in freckled Irishmen on us at four dollars a week. They gave the public a good show, but did not give us any show at all. The black-eyed maiden on Bull creek waits for us. Westward the star of Bill's show takes his way, you bet. I wish to he reserved and will retire to the reservation. I have said."-Judge.

HE WAS HONEST.

Wlfe (reading paper) .- "I always held that Col. Hooker was an honest man. I see that a man filled him full of buckshot last night."

Husband.-"Where does the honest part

"Why, this article says the Colonel returned

the shot "-Life.

DRIVEN TO IT.

Kind Lady .- "If you need clothing, I can supply you with an old suit of my husband's; but they'll be about four sizes too big for you."

Tramp.—"Never mind, mum; I'll wear 'em. I'd rather be mistook for an Anglo-maniac than freeze."-New York Weekly.

KILLING IT'S SALE.

"What's that!" exclaimed the ambitious author, "the sale of my hook suddenly drops to

nothing, after going off so rapidly?"
"Yes," replied his publisher. "You see, a judge has just decided that there is nothing bad about it."

LITTLE BITS.

Some men buy umbrellas; some men achieve them, and some get wet and swear .- Texas

Know thyself, and keep the information to thyself. This is good advice.-Hartford Relig-

Edward Bellamy has earned \$16,000 by Looking Backward. This is better than Lot's wife, who merely earned her salt .- Hartford Post.

"Give me the man who sings at his work," says some gushful writer. Do. Give him to anybody that wants him.— Washington Post.

Sniggins (angrily) .- "Do you know that your chickens come over in my yard?" Snooks .- "I supposed that they did, for they

never come back again."-New York Herald.

Wickwire.-"Going to hear the lecture tonight on 'The young woman of to-day?' " Yabsley .- "Guess not. The young woman of to-night is more interesting to me."-Terre

"Father," said Willie, "did Columbus discover the Atlantic ocean ?"

"Why, certainly not. What made you ask such a question?"

"My joggerfy says he came across it." - Washington Post.

"This bell," said a well-meaning sexton, when showing the belfry of an interesting village church to a party of visitors, "is only rung in case of a visit from the Lord Bishon of the diocese, a fire, a flood or any other such calamities."-London Figaro.

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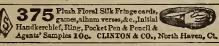
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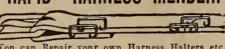
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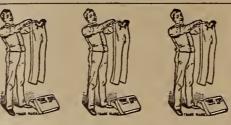
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от being the organ of any organization, this paper can fearlessly and independently either condemn or approve the objects, demands or works of any organization, just as will best serve the true interests of the farmers. It is tree to indorse any or all of the objects of any agricultural organization, but is not bound to indorse all or none. It is in full sympathy with most of the objects of the Farmer's Alliance, but it considers the subtreasury scheme, advocated by the southern Alliance, impracticable, and has not hesitated to say so. And it has said so in the true interests of farmers and not against them.

Not all the farmers of the country have gone daft on big financial schemes. Witness the following resolution passed recently by the state Grange of Michigan:

"We regret that the National Grange, the Farmer's Alliance and other organizations of farmers have indorsed the proposition in one form or another to make loans by the government to the people. That the issuing of \$1,000,000,000 of treasury notes and loaning them to the people, either directly or indirectly, at a low rate of interest, would lead to a wild clamor for credit, every jutelligent person must admit. That no system could be devised or its operation so guarded as to prevent parthality and favoritism in its distribution, first, to personal friends of the loaning agent. aud next, to his political associates, every thoughtful mau must foresee. That it would create a feeling of helpless dependency upon government aid by those whom it is designed to benefit, thereby relaxing their individual effort, destroying their energy and self-reliance, and rendering them helpless mendicants of government charity, every observer of human nature must know. That it would lead to thriftless improvidence, relying on government aid or government forbearance by those whom it seeks to benefit, and prove a curse instead of a blessing, is so plainly evident that we are surprised that the National Grange should allow itself to be carried away by the clamor of those who hope for themselves public preferment, by holding out a scheme so enticing to the ignorant or improvident debtor and scheming speculator."

It is noticeable that the advocates of the subtreasury warehouse scheme have given so few estimates of the probable cost of establishing and running such a system. There are more than twenty-five hundred counties in the Union. To build and equip a suitable subtreasury in each would cost, at a moderate estimate, over \$500,000,000. The people are justly complaining that taxes are already too high. Are they willing and ready to have them enormously increased? The sum required to establish the system is more than the annual revenues of the government. The people will not stand the additional taxation

necessary to raise the money to establish the system. Shall the government issue more bonds and borrow the money necessary? The credit of the government is so good that it can borrow mouey at a low rate of interest-three or four per cent. But for it to borrow money at that rate and loan it out at one per cent, means inevitable national bankruptcy. No savings bank or financial institution could do business on such a principle. Neither could the government.

Then again, what a bonanza it would be for speculators to borrow mouey at one and two per cent and reloan it for three, five or more? These big, financial schemes are advocated in the interests of the farmers, but as sure as they are once put in operation, the speculators and money sharks will reap the lion's share of the benefits to be derived from them, and the last state of the farmers will be worse than

Edward Bellamy, the noted exponent of nationalism, sees in the farmers' political movement the first firm steps toward the remodeling and nationalization of our eutire industrial system on the basis of equality and fraternity. He says:

"Primarily the movement is for the relief of the farmers from specific grievances believed to be remedial by special legislation. To this extent it is, of course, a class movement, interesting and important as such to a high degree indeed, but characterized by the narrowness inseparable from any class movement, however justifiable. It is, however, especially in its western centers, far more than a class movement. It attacks the existing industrial and commercial system on lines so radical as to be revolutionary. This is the fact that constitutes altogether the most significant aspect of the farmers' uprising. This is the characteristic which broadly distinguishes it from any mere political overturn and compels its recognition as a part of the present worldwide movement of the masses for a radical change in the industrial system, a movement everywhere so alarming to those who do not understand it, so inspiring to those who do.

"Whatever the name or form of the great national party of the people which is destined in the near future to establish a nobler and happier civilization in this land, we may be sure that these farmers will be found in the ranks. To men who have once contemplated the ideal of human brotherhood, and known the enthusiasm it inspires, the petty issues of the so-called great parties cease to have any meaning."

ITHIN the last ten years about 5,000,000 immigrants arrived in this country. This is double the number of the preceding decade. But with the increase in numbers the quality has changed for the worse. The immigration from north-western Europe has fallen off, and that from the south and east of Europe has increased. And also the character of the immigration that now comes from the countries that formerly sent the best class has greatly deteriorated. An alarming proportion of the present immigration is from the helpless and dangerous classes of the large cities of Europe, material out of which it is impossible to ever make good American citizens. Degraded foreigners, joining the already crowded ranks of cheap labor, can only add to the

prevailing discontent and increase the difficulty of solving the labor problems.

There is a bill now before congress, the object of which should meet the approval of every patriotic American citizen. It is a bill to restrict immigration. Its provisions, if carried out, will keep out criminals, those who are not self supporting, the most ignorant and all the most undesirable classes of immigrants. The bill provides that the foreiguer intending to settle in this country, shall first secure from a consul or other representative of the United States in his country, a certificate to the effect that he is sound in mind and body, able to support himself, not a criminal, not obnoxious to the laws of the United States, not assisted by charity to emigrate, able to read and write his own language, and to read the constitution of the United States either in his own lauguage or in English.

The bill will not keep out any desirable class of immigrants. Only those who can be admitted under its provisions are fitted ever to become citizens. The educational requirement is one of the most important features of the bill. It would cut off large numbers of ignorant, cheap laborers that come over here and enter into disastrous competition with the most poorly paid classes of American laborers. Indeed, the bill, if it becomes a law, will be a very important measure of protection to American labor of all classes.

NE reason why the dealers in cottonseed oil and the manufacturers of compound lard so violently oppose the Conger bill and favor the Paddock pure-food bill, is that the latter will not interfere in the least with the fraudulent retail sale of compound lard as pure hog's lard. While the bill provides that the manufacturers shall plainly brand the packages with the true name of the contents, it will not prevent the retailer from destroying the labels and from selling compound lard as pure lard. The law does not go far enough. The consumer will not know whether he is buying an adulterated or a pure article. So far as bogus lard is concerned, the law is inefficient to prevent the consumers from being imposed upon, and that is why the makers of compound lard favor it. Compound lard may be a pure, wholesome article of food, but it should be compelled to be sold on its own merits.

I N A test case recently brought before the United States Court at Ciucinnati, it was decided that the Ohio statute prohibiting the sale of oleomargerine, colored to imitate butter, could not be enforced against sellers of original packages so colored, which were imported from another state. But the law is valid so far as it relates to oleomargerine manufactured in the state, or imported, if offered after the original packages have been brokeu. In a similar case brought before the court in Philadelphia last month, the judge decided that the Penusylvania statute prohibiting the sale of oleomargerine, in packages as originally imported from another state, is unconstitutional. If the Supreme Court, to which these cases may be appealed, should affirm these decisions, state statutes against imitation butter will be practically null. Although the laws still apply to the retailing of oleomargerine after the original packages are broken, the manufacturers can easily get wise and providential thing.

around them. All that will be necessary for them to do will be to put up oleoniargerine in packages small enough for the retail trade. Then the Pennsylvania maker of bogus butter, although forbidden a market in his own state, can sell his product in Ohio, and the Ohio manufacturer can sell his stuff freely in Penusylvania. These packages, under the United States revenue laws, would have to be branded, and it may be argued that then the customers would know just what they were buying. But in actual practice it would be difficult to prevent the retailers from tearing off the labels and palming off oleomargerine on their customers for butter whenever they could find an opportunity. The remedy is to get an act of congress placing oleomargerine subject to full state control, similar to the act providing for the regulation of the inter-state traffic in spirituous liquors.

In the letter of a sportsman to his favorite journal appears the following sentence, written apparently in all soberuess: "Not all the farmers in this valley annoy the hunters by posting trespass notices." How very kind and considerate. How thoughtful of the tender feelings of the city sportsmen who annually invade the "rooral deestricts" during the hunting season. How hardhearted, sordid and selfish those other farmers are who "annoy" the hunters by posting trespass notices. "Annoy the hunters" is good. Certainly the farmer does not realize what a grievous annoyance it is to the mighty hunter from the city to arrive with his dogs and his friends at his chosen hunting grounds and find them posted with trespass notices. It is too late now to help it. The season is over, and the sportsmen have returned to their homes, and are now studying what amendments to the game laws they shall have the legislature make so as to give them a better chance next season.

ONSIDERABLE clamor is now being made against national bank notes. But by the time their opponents are in possession of power to legislate against them there may be very few of them to legislate against. National bank notes are based on government bonds. The approaching extinction of the bonds means the retirement of national bank note circulation. But the national banks are anticipating this time by voluntarily selling their bonds and retiring their national bank note circulation. They are selling their bonds now because they command a high premium. If they keep on at the present rate bank notes will disappear long before the bonds mature. From \$341,000,000 in 1873, bank note circulation will soon be reduced to about \$125,000,000.

ASTERN farmers appear to be needdessly alarmed about the aid the ✓ national government is giving to irrigation in the great arid regions of the West. It is not the purpose of the government to reclaim the deserts and put them into immediate competition with the farms of the East, as feared. In making surveys and providing that the water on the public domain available for irrigation purposes shall not fall into the control of private parties or corporations, but shall be preserved for the public use of future settlers, the government is doing a

FARM AND FIRESIDE

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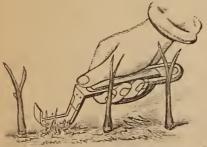
Our Larm.

THE NEW ONION CULTURE.-NO. 2.

BY JOSEPH.

ETTING THE PLANTS .- Little need be said about the preparation of the land, as this is about the same as for growing onions in the old way. The land should be rich, or be made so by heavy dressings of manures. It must have good drainage, but the surface soil need not be deep nor deeply stirred. I do not like to risk deep, loose muck, as there is danger of a crop of scallions instead of well-finished bulbs. Probably the best way of preparing the ground is by plowing in fall, manuring with plenty of fine compost during winter or spring, and stirring this into the surface soil by means of a good harrow, such as the ordinary disk pulverizer or an Acme. In the absence of either, it may be done with a fine-toothed cultivator.

This matter of manuring may need a little more explanation. That you should not expect a 2,000-bushel crop on poor soil is self-evident. Consequently, it would be poor policy to be "saving" with the manure. It takes plenty of it, and I would rather plant a small piece of ground and have the manure put on thick, than plant an acre with just "fairly good" manuring. I apply fine, rich compost several inches deep all over the ground, and after this has been worked in I further put on whatever fine fertilizing materials I may have—ashes, concentrated manures, also the matter collected under the perches of the poultry-house, etc. Nitrate of soda,



THE LANG'S WEEDER IN USE.

in small doses, is applied every ten days or two weeks during a greater part of the growing season. But all these suggestions apply with equal force to the old as well as to the new mode of onion growing.

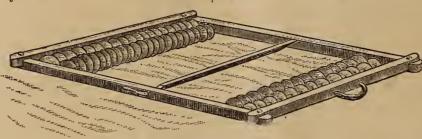
The surface of the ground, of course, should be made smooth, as for sowing seed. Wherever the disk harrow is used to stir surface soil and compost together, we should follow with a smoothing harrow or common drag or a "plank" drag, in order to work down the ridges left by the disk pulverizer. In a small way, the ordinary garden rake will answer very well to finish off; but when we operate on a one-acre scale, or even a larger one, the use of the Meeker disk or smoothing water in dry weather. If the weeds start steady work, according to the quantity and taking it away," the application is not

hand work, and leave the ground almost if not fully as smooth as does the use of the steel rake. Probably but few of my readers are acquainted with this "Meeker" harrow, and, unfortunately, it is but little used outside of the eastern states, I believe. But the tool is such a great labortruck farm that its use cannot be too earnestly urged upon people engaged in these branches of farming. Another unfortunate circumstance is its high price (about \$25), but people having much use for it will save this amount in a short time in the labor account.

Some of my friends, probably, will wish to know what this most excellent tool looks like. The accompanying picture gives a true representation of it. Various seedsmen keep it in stock, among them Mr. Gregory, of Marblehead, Mass.; Messrs. Henderson & Co., of New York City; Mr. Maule, of Philadelphia, and probably others.

harrow will save us a great amount of in the rows, they must be removed, which usually can be done with the least trouble by means of a hoe with very narrow blade-for instance, some old, well-worn hoe, the blade of which is cut down by your blacksmith in such a way that the width of the cutting side is not over two and one half inches, leaving the corners saver in the market garden and on the sharp. In most cases, especially on weedy soils, a hand-weeder, such as Lang's or Hazeltine's, may have to be used, but the greater part of the work can be done with the narrow-bladed hoe. That all this be done thoroughly and timely is a matter of greatest importance.

Not less important is it that the crop be pulled just when ripe; that is, when the majority of the tops have died down, and that it be properly cured and marketed at an early date. Of course, all this is true, also, of the old way. The chief difference here is that we get the crop considerably earlier, and can place it on the market perhaps two or three weeks earlier, when we follow the new method than we could



THE MEEKER HARROW.

simple hand marker with four or five new one are manifold, and appear esteeth not much larger than those of a wooden rake, and have them a foot apart from point to point. The object is to make small, narrow marks that can serve as a mere indication of the proper place for the plants. I like to set onions close, in order to grow the largest crop on the area. Greater width than a foot between the rows is a waste of land and opportunity. The rows may be marked out only as fast as needed, but make them straight. Afterwards draw the marker across the length-rows, so as to give you some guide as to the space the plants are to be given in the row. Now take up a lot of plants from the bed; with a trowel, carefully divide and straighten them, and have them distributed just ahead of the planter or planters. In setting them, use a small, sharp-pointed, hard-wood dibber, or stout table-knife (a broken one with blade ground to a point is best), and thrust this into the ground in the proper place, making a small opening in which to insert the onion plant about an inch deep; then again insert the dibber slantingly, about an inch from the plant, and press the soil firmly against the root. With a little practice this is quickly done. People little accustomed to such manipulations can set perhaps 2,000 plants a day; the nimble fingers of expert planters will more than double this number. I like to have the plants stand as reg-

ularly as possible. To accomplish this, a plant is set in each cross-mark and two or three between in the row. This brings them to just three or four inches apart. To the large, foreign onions and the Prizetaker I always give four inches space, while ordinary sorts, such as Yellow Danvers and Red Wethersfield, might be set three inches apart. Even at the larger distance we need about 130,000 plants per acre. As I have said before, this job of setting the plants is the real work of the undertaking, and before we rush into the five-acre veuture we should think twice and make sure that we have the help that will be needed for this work. On the other hand, the labor of keeping the weeds down will be slight compared with the old way, and no thinning will be required. Each plant has sufficient room for best development, rendering the crop not only very large, but all the bulbs handsome and of uniform size and more readily salable.

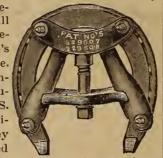
Clean cultivation is, of course, as essential as in the ordinary method of onion growing. A good, hand wheel-hoe (row straddler), such as the Planet Jr., should be diligently used. This is easy work. Later in the season I sometimes use a hand cultivator that goes between the rows. At any event, the soil should be kept well stirred, not only to prevent weed growth, but also to provide a mulch of fine soil all over the ground and thus prevent a too rapid evaporation of the soil

The next thing is the marking. Make a under the old one. The advantages of the pecially prominent when the returns from the crops grown under both methods are figured out. Perhaps in some future number I may tell of the methods of curing, storing and marketing. Buffalo commission men were quite enthusiastic about the onions which we cousigned to them the past autumn.

ICE-CREEPERS FOR HORSE-SHOES.

The illustration shows a horse-shoe fitted with the Blizzard adjustable ice-creepers. They can be readily attached to any

ordinary horseshoe, and will effectually prevent a horse's slipping ou ice. This useful invention is manufactured by S. W. Kent, Meriden, Conn. They can be attached



or removed in a very few minutes whenever necessary, and are a great convenience to have on hand to put on your horse's feet in icy weather. The wear all comes on the steel calks, which can be easily replaced.

SUGGESTIONS FROM THE EXPERIMENT STATIONS.

BY JOSEPH (T. GREINER.)

NEW INSECT REMEDIES .- The Arkansas station, as reported in bulletin No. 15 (Fayetteville, Ark.), has, the past season, made experiments with various substances by which it was hoped the cotton worm might be destroyed. One of these substances, the kerosene soap, commonly known under the euphonious name, "sludge," and made from the refuse in the refining of coal oil, proved a failure for the cotton worm, but effective on the pear slug and some other insects.

The station brings out an entirely new insecticide-kerosene extract of pyrethrum-and this may yet prove one of the most effective, and at the same time most inexpensive and harmless remedies yet found. It combines the strength and destructive elements of two well known insecticides, pyrethrum and kerosene oil, in oue. It is made by passing kerosene oil through the powdered pyrethrum. The proportions used at the station were two and one half pounds of pyrethrum and one and one half gallous of kerosene. The vellowish, oily extract obtained will not mix with water any more readily than pure kerosene, and has to be formed into an emulsion with soap in a manner similar to kerosene emulsions. One pound of soap is dissolved in one gallon of boiling water, and to this boiling hot mixture one gallon of the kerosene extract is added. mixing with a force pump so thoroughly that the oil will not separate on standing. It requires from ten to thirty minutes

the force used. On cooling, the emulsion will be a thick, creamy mass, which is to be diluted or reduced to one part in 450 or 500 parts of water before applying. It is harmless to those who handle and apply it, and on cotton, for the cotton worm, costs about five cents per acre.

This estimate of cost looks ridiculously small. The station people figure the cost of pyrethrnm at only 30 cents a pound. It would probably be better to use the California product (buhach), which costs about 75 cents a pound, and if desired, a smaller quantity of it might be employed. Still, as the expense is so trifling anyway. there is no cause for economy. This remedy appears to me decidedly promising, and we might try it for almost all the pests that at present trouble our garden aud fruit crops, such as cabbage lice and worms, all aphides, asparagus beetle, currant worms and all caterpillars. The. remedy might be made much stronger than the proportions given; and as it is applied in spray form, will yet be cheaper than any other remedy we might use. Even if quite strong it will not do any perceptible harm to tender foliage. Of course, this remedy kills by contact, not from being eaten.

Another new remedy found by the station is "veratrine." Mixed with flour in the proportion of one pound to 64 parts of flour, this powder was by far the most effectual in its work of any tried, and bids fair to be a rival of Paris green and London purple. It kills both by contact and from being eaten. When it comes in contact with the worm there at once begins to be a marked uneasiness, followed almost immediately by trembling and writhing, during which it falls to the ground, probably never to recover. Should it, however, recover sufficiently to return to the plant, as soon as it begins eating, a small quantity proves fatal. There is much similarity in effect to that of Paris green, except that the veratrine shows more effect on contact, while Paris green seemed somewhat quicker in its effect when eaten. The cost of both mixtures (veratrine and Paris green) is about the same. In the foregoing we have two remedies which have every appearance of being of great value. They will be largely tested the coming season.

THE SQUASH BEETLF.-Prof. Clarence M. Weed reports in bulletin No. 8, Vol. III. of the Ohio station, a series of experinients made with so-called remedies for the yellow-striped squash beetle. The only thing that proved to be a complete protection against its ravages was fencing the pest out by mechanical barriers, such as boxes or similar devices covered with muslin. Dusting peroxide of silicates on the plants seemed to save at least part of them, while Paris green, heliebore and slug shot, similarly applied, seemed to have next to no effect in protecting the plants from injury. Tobacco dust proved a valuable application. A shovelful of the dust was thrown upon each hill. The beetles seemed to dislike working in the tobacco, and the plants on all of the hills treated came through in good condition. Aside from its value as an insecticide, the tobacco acts both as a mulch and fertilizer. Analysis shows that its market value as a fertilizer is \$25 per ton, says Mr. Weed. In many eastern cities it is being utilized, but in Columbus many of the factories are glad to give this refuse to any one who will take it away.

Mr. Weed's word is good enough authority for the truth of the statement, and yet it hardly seems credible that so good a fertilizing material should be offered in this way without finding ready takers. I know if I lived near Columbus I would use tobacco refuse very largely as a fertilizer if I could get it by taking it away, or even at a low price. We could well afford to give \$15 to \$20 for an average quality of it for fertilizing purposes alone. But aside from this I am in the position to endorse Mr. Weed's high opinion of the stuff in its capacity as an insect repeller. I used it freely on my vines, last season, and I also made the observation that the beetle did not like tobacco flavor. For all that, it is not an absolute protection, and we should not indulge the idea that a little sprinkling on the plants will answer. The way to do is to cover the ground around the plants several inches deep, and if the plants are kept partially covered, all the better. When you can have the stuff "for expensive. It is so to some extent when you have to pay \$3 per barrel and freight for it; but at the same time it is profitable to use it.

RHUBARB CURCULIO .- A snout beetle (Lixus concavus) has been observed to do some injury to the rhubarb or pie-plant. The Ohio station tells us that the life history of the insect in its earlier stages has now been discovered. In this region the rhubarb curculio usually hibernates as an adult, and comes forth in the spring to deposit its eggs in certain common species of dock. It seems evident that the best way of preventing its injuries will be to destroy, early in the summer, the plants in which it develops. If the dock plants are pulled up, roots and all, say, late in June, before they have gone to seed, and burned, a great many of the insects will be destroyed.

POTATO BLIGHT .- The experience of the Ohio station people in trying to fight the potato blight with copper remedies, the past season, has not altogether been satisfactory. Some rows were sprayed with the Bordeaux mixture, others with the ammonical solution of carbonate of copper, and some were left without treatment. The / Bordeaux mixture was made by adding six pounds of copper sulphate and four pounds of lime to fifty gallons of water. The carbonate mixture was made by adding six ounces of copper carbonate to two quarts of ammonia and diluting with fifty gallons of water. Four applications, by spraying, were made during the season. The blight came and continued to increase in severity during July and the first half of August. Little difference in the degree of effection could be detected between the vines untreated and those to which the carbonate solution had been applied. The disappointment for me lies especially in the statement that even the rows treated with the Bordeaux mixture were attacked to a considerable extent. Still, there was a decided difference between them and the others. By the 5th of August the plants were practically all dead except in the Bordeaux mixture rows, which were yet green and growing. The difference, indeed, was very striking, and the Bordeaux mixture rows held out two weeks longer than the others. Consequently, there was a decided increase in yield in these rows. Yet further experiments will be necessary to determine whether the blight can be prevented entirely by the use of fungicides, and whether this can be done cheaply enough to have the increase of crop compensate for the outlay. It seems to me that one point is already well established, namely, that the application must be begun early, and before the blight has taken a firm hold on the plants. The whole treatment should be preventive rather than curative. A good knap- would be if we could prove that both

ing of one or more grains of ripe polleu on the stigma of the pistil when it is stigmatic. The stigma of the pistil, when ready to receive the grains of pollen, becomes moist or sticky and remains so for a longer or shorter time, owing to the habit of the species. During this heat or moisture of the stigma it is said to be stigmatic, or in the stigmatic heat. It is there held by the sticky surface, the pollen grain or grains soon throwing out a slender tube which penetrates or grows down through the pistil until it reaches the ovary, with the future seeds iu embryo, where it is absorbed; and there lays the foundation which may in due course of time develop into a new life, an individual life, differing in some points from all other lives that ever existed or

ever will exist on this earth; that is, an individual or variety which will always remain the same so long as it has life.

We can multiply this variety by causing parts of it or portions cut from it to grow into millions of specimens of it, artificially, as by budding and grafting, but it always remains

the same. The Bartlett pear is the Bart- of forced sexual breeding in animal life, lett wherever we meet it, the different trees being only divided parts of the original tree, which had its start in one or more graius of pollen, nourished in the ovaries of the mother plant.

Such pollenation may be called natural. We know but little of the delicate and intricate processes used by nature in effecting pollenation; we never can know all, for they are too delicate and subtle. We do know, in various plants where the male and female flowers are on different plants widely separated from each other, that nature in some way brings the two sexual elements together when we might think it impossible. Again, we have cases where one would think it was not possible for a single flower to escape pollenation, yet not one will be quickened. Yet there would be nothing mysterious, uncanny or supernatural about this, could we know all the facts. Electricity is a natural force, and where certain pollen cannot naturally reach certain stigmas, how simple the explanation of such a fact

were (to speak in electrical language) positive or negative and mutually repelled contact the one with the other. Then, all ways by which pollen can reach the stigma naturally, we may call natural pollenation.

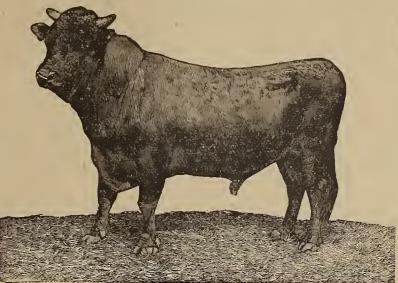
On the other hand, if we gather the pollen artificially, when ripe, and force it in con-

surface of the tact with the viscid stigma, we may rightly term this forced pollenation. To make the meaning more clear, some facts in the sexual breeding of animals will help, for the phenomena of generation in plants and animals run in parallel lines. We will take the salmon family of fishes. The distinct species of this family bave lived in the one small stream or lake for ages, and bred freely, with no hybrids appearing between them; and so they might live and breed together for future ages of time, in their own natural way, with no hybrids. In the nature of things there could be none, naturally. Why? For scores of reasons, the most potent one being that the one species fears the other as the sheep fears the wolf, or the hare the dog. The spawn (eggs) of the one species is cast as remote

will allow, and generally at a somewhat different season of the year. But a still more poteut reason is that it is not possible for the two species to have any sexual feelings or desire for each other. This seems to be the most powerful element which controls the natural purity of species.

Now, it has long been proven a fact that if we press the ripe eggs from one of these salmon or trout, and press the milt-the male element-from a male of a far removed and distinct species of the salmon family, and mingle the two together under the right conditions, they will be fertilized-will hatch and produce true and ofton fertile hybrids; or, in other words, a new species of fish.

In this we have about our only chance



IDA OF ST. LAMBERT'S BULL 19169.

and the results are equivalent to forced pollenation in plants; or, in other words, the results are the same in the one case as in the other. A new species is brought into existence, and there is no doubt but that in the case of the fishes, several new species could be differentiated by selection from one hatch of eggs from the same male and female, by artificial selection during a few generations. The same would undoubtedly be true of the seeds of a pear grown by forced pollenation with apple pollen, etc.

There are limits of forced pollenation between fruit species, of course, but where that limit would be could we manipulate rightly, who knows? We know that there are limits to natural pollenation, and very distinct ones. We know, absolutely, that there are species that will not, cannot, either naturally or by force, accept their own pollen, and there is but little doubt that there are species that will not and cannot be forced to accept any pollen but their own.

There are rules that have been determined concerning pollenation in plants, and also many rules that have not been tried and determined, to keep experimenters busy until the end of time. Or, in other words, we have simply reached that stage that we do not know what we can do until we have tried; and when we have tried and failed, we only know that we may not have tried rightly. About the

oldest gardeners in the world, the Japanese and Chinese, have produced some wonderful fruits, many of them uudoubtedly hybrids, and plants and flowers largely, certainly hybrids. The art they employed we know not, but probably they made no forced hybrids. Then what may we not expect from our artificial manipulations of pollen, or forced hybridity?

Petaluma, Cal.

TWO JERSEYS.

The pair of high-bred bulls illustrated ou this page are noble representatives of the best families of Jersey cattle in tho world. They are the property of Ayer & McKinney, Philadelphia, Pa., and stand at the head of their Meridale herd, one of the largest and finest herds of Jerseys in the United States.

A NEW HIVE.

An English bee-keeper announces that he has discovered the long-looked-for, "universal" hive. But his hive, or its principle, is not new, and will not be universal; in fact, this hive, or one similar in construction, has been in use many

The new hive provides for side storing: indeed, this appears to be the new feature claimed by the inventor. The idea is old and not worth much. Frames for surplus honey are placed on each side of the brood-The inventor says that the bees can work in these frames, or combs at the side, when it is too cold to ascend to the upper This shows that the inventor not gone into the work-room of a colony of bees and there taken up his abode long enough to discover that it is always warmer over the brood-nest than at the sides; that if it be too cold for the bees to ascend to the upper story, it is colder to travel to the sides of the brood-chamber. In the living-room of bees, as in any room, the heat rises.

Further, side storing is not likely to be successful unless a queen-excluding board be used. The queen, working out from the brood-nest, will lay in the surplus combs unless she be restrained. It is said that the queen-excluding board does not hinder the bees very much. But it hinders some; there is no doubt about that. If a man, returning to his house, is obliged to crawl into a door just large enough for him to squeeze in, he would say that it hindered. That is exactly what a bee does when it passes through the bee spaces of the queen-excluder or the drone-trap. Again, it is contrary to established principles, contrary to bee law, to enlarge hives or colonies sideways. Many bee-keepers believe that if the present hive were twice as high and half as wide, it would be more in accordance with the natural plan of GEORGE APPLETON.

he

Of the kidneys and liver to properly remove the lactic or uric acid from the system, results in

RHEUMATISM.

This acid accumulates in the fibrous tissnes, particularly in the joints, and causes inflammation and the terrible pains and aches, which are more agonizing every time a movement is made.

THE WAY TO CURE

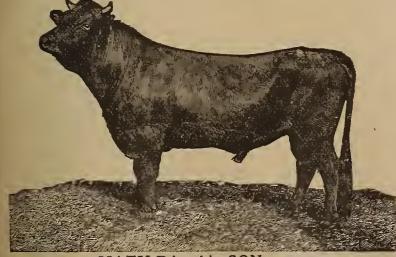
Rheumatism is to purify the blood. And to do this take the best blood purifier, Hood's Sarsaparilla. Hosts of friends testify to cures of rheumatism it has effected. Try it.

"For chronic rheumatism Hood's Sarsaparilla did me more good than anything else I have ever taken. F. MILLER, Limerick Centre, Pa.

Hood's Sarsaparilla

Sold by all druggists. \$1; six for \$5. Prepared only by C. I. HOOD & CO., Lowell, Mass.

100 Doses One Dollar



MATILDA 4th's SON 20214.

sack sprayer can now be had for \$14, and | I hope advantage will be taken of this by many growers, so the question can be definitely settled the coming season.

HYBRIDITY AND POLLENATION.

In my last article I used the terms "natural pollenation" aud "forced pollenation," and forced, in this connection, might properly be termed unnatural.

Nearly all who will have interest enough to read these articles will know that perfect flowers, such as nearly all of our fruit trees have, have two sets of sexual organs. namely: the stamens capped with their anthers-sacs enclosing the pollen grainswhich are the male element, and the pistils, capped by stigmas, which, combined with the ovary at the base of the pistils, are the female organs.

The act of pollenation, then, is the plac-

from the other as the limits of the water

ARE POPULAR WHEREVER PLANTED.



As is proved by our extensive mail trade—the largest of the kind in the United States. It is generally admitted that we annually supply SEEDS direct to more planters than any other Seed House in America. Some idea of the extent of our business may be formed from the fact that, in the busy season, we receive every day 3,000 to 5,000 letters and postal cards. The first editions printed of our Catalogues for 1891, necessary to mail one copy to each of our customers and applicants, number nearly half a million. The forms are electrotyped, and future editions are printed as required—making in all the largest number of Catalogues published by any Seed House in the world. With the perfect system necessary to handle so extensive a business, we can serve our customers more accurately and more promptly than can Seedsmen doing a smaller mail trade, where it is impossible to maintain a similar business, so completely organized. Dealing direct with the planters, we also know their requirements, and are enabled to supply the BEST SEEDS at as low prices as they can be produced and honestly handled.

Mark



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Is a handsome book of over 150 pages, of great value to every one who cultivates a garden. Superbly illustrated with colored plates painted from nature, it tells all about the Best Garden, Farm and Flower SEEDS, PLANTS, SHRUBS, Lilies, Gladioli, and other Summer-Flowering BULBS. It describes RARE NOVELTIES of real merit, some of which can only be had direct from us. It will be mailed FREE to all who intend to purchase (provided our prices and varieties prove satisfactory). As it is too expensive a book for indiscriminate distribution, we must request that applicants desiring it merely for reading will please enclose ten cents, which is less than actual cash cost per copy to us.

W. ATLEE BURPEE & CO. PHILADELPHIA, PA.

\$\frac{1}{2}\frac{1}{2 When you write, be sure to say you saw this advertisement in Farm and Fireside

Our Farm.

NOTES FROM MY HOME GARDEN.

BY JOSEPH.

A reader of the FARM AND FIRESIDE, residing in Tennessee, writes that he has a small garden, low and damp, which he wishes to make as profitable as possible. The query for him is what he should and could do at this season of the year to help along in the desired direction.

The very first thing to do is to make sure that drainage is perfect, or made perfect where in any way faulty. From my friend's query I infer that there is rather more moisture than desirable. This excess will disappear with perfect drainage. Every additional line of tile will help the productiveness of the garden, and we can well afford to have the drains two, three or even four times as near together as we would deem it necessary for ordinary farm operations. Ditches may now be dug where the ground is not frozen, or only a few inches deep on top. Even where real cold weather usually sets in by December, ditching can yet be continued for a good while. All that it is necessary to do is to have two furrows thrown together over every line of the intended ditch system. This covering of loose soil protects the solid soil underneath against freezing for some time, and is easily removed, so that the operation of ditching can proceed. But every ditch or part of a ditch should be finished, the tiles laid and covered before night. Neglect to do this must, in case of hard frost, result in much unnecessary additional labor and incon-

Another thing that can be doue in the fall to facilitate the spring's operations, is plowing and subsoiling. Have the land plowed in long, narrow beds, with deep, dead furrows for surface drainage. If the subsoil is naturally but little porous, or of clavey character, the subsoil plow should follow in the furrow made by the ordinary plow. Even at the North we have spells during winter almost/ every year, when such work can be done. This subsoiling is next to useless if not a positive damage, however, when done at a time that the subsoil is impregnated with water. The object is to open the subsoil and let water and air pass more freely through it. If stirred when wet this object is defeated, since the stirring forms a pasty mess, which, after drying out again, becomes more impervious to water than it was before.

Procuring and applying manures to the plowed surface is also seasonable work now. Fertilizing materials should not be spared if you want to make the most of your "small garden." Put on plenty of good compost and anything else in that line you can get, and while you then can wait for the opening of spring and active operations again, you should improve the opportunity and decide what things can be grown that are most wanted, or most profitable generally. If you plant for home use alone, you must, of course, have a little of everything; if for market, you must grow what the market demands and what appears to give the best returns. These are matters on which nobody afar off can give you directions or advice; each person must determine for himself according to his local conditions. Study the seed catalogues, make a judicious selection, send for your seeds early and be sure to have them on hand when wanted. In the meantime, also get the frames and the sashes that you will need in readiness, and, in short, make all preparations necessary for starting in fully equipped as soon as the season will permit.

SOIL FOR SWEET POTATOES .- J. H. H., of Mt. Morris, Illinois, has a piece of very rich, deep and loose soil, on which he desires to plant sweet potatoes next year. My experience is that on soil of this character the plants are bound to make a tremendous growth of vines, which will root all over the ground almost in spite of everything we can do. The tubers are long and slim and unmerchantable. It is safer to plant on soil of only medium fertility-soil neither very deep nor loose. I put the manure exclusively into the hills for this crop.

INSECTS ON FRUIT TREES

Can be destroyed by spraying with London Purple. Diseases of grape vines can be checked by spraying with Bordeaux mixture. The Field Force Pump Co., of Lockport, N. Y., manufacture the Knapsack Sprayer and a tull line of Orchard and Vineyard Outfits. Write them for circulars and directions.

Orchard and Small Fruits. CONDUCTED BY SAMUEL B. GREEN.

THE CRANBERRY.

BY SAMUEL B. GREEN.

This plant is a native of northern Europe and America. Our American variety, which is the best, grows from Virginia to Canada, and certainly as far west as western Minnesota, but it seems to do best in the middle aud northern states.

HABITS.

It grows naturally in low, wet, bog land. It is a perennial vine, with an attenuated stem, which may often be three feet long, with side branches. The leaves are small and oval in form, and the berry is of an agreeable, acid taste. It is very hardy and tenacious of life in every situation, and will root freely from layers or from cuttings strewn on the surface of the soil and slightly covered. It blossoms in May, the fruit ripens in September, and is greatly improved by cultivation.

VARIETIES.

There are two varieties commonly raised in this country. They are considered as one and the same thing, botanically speaking. The difference is said to have come by cultivation. The varieties are the bell and the cherry; so called from their shape resembling these objects.

FLOODING.

For the most successful cultivation, the land for cranberries must be so situated that it can be flooded at will.

- 1. To protect the fruit against early
 - 2. To protect the plant against insects.
- 3. To protect the plant against winter
- 4. Because it is the nature of and beneficial to the cranberry to be covered with water a part of the year.

HOW DEEP TO FLOW.

This depends, necessarily, somewhat on the location of the bed. If there is but a small supply, flow the land until the water is one inch deep over the vines. But if the bed is subject to occasional extreme overflows, then it should be flooded at least two feet deep in winter; for if not, the vines get frozen into the ice, and then a sudden rise lifts the vines, and may bring ruin to them. The water should always be within five inches of the surface of the bed.

TIMES TO FLOW.

- 1. Whenever there is danger of the fruit being injured by frost, the vines may be flooded one inch.
- 2. Flow in the winter, and keep it on until the grass begins to get green, when it should be let off to allow the vines to
- 3. Keep it off the bcd from May until after picking, unless it becomes very dry or the insects are troublesome, when it may be flooded for a day at a time.

MAKING THE BEDS.

It will not pay to expend much money in preparing a bed, unless the flowage can be controlled, as the risks from frosts and insects are too numerous. Having a good peat or muck bog, two or more feet deep, and having control of the flowage, no matter what vegetation is on the land, it will pay to reclaim it for cranberries.

The vegetable life on the land, whether it consists of bushes or trees, must be cleaned off, and a good surface formed, free from many roots. This may be done by taking the crust off with spades as deep as necessary, or if possible, the land may be plowed and got into shape as for any garden crop. It will generally be found best, if plowing is the means used, to let the land lie fallow one season, killing out the bushes and weeds as much as possible. The time spent in getting the beds into good order before planting, is well spent, for in this work success is dependent upon a good start, and if the soil is well prepared at first, the subsequent lessened expense in cleaning more than compensates for any present expense.

After preparing the land, by killing out all vegetable life, the beds may be made up. These should be small, and have an even grade, running to a ditch on each side, so that the water can be drawn off quickly. Never allow any hollows on the beds. The beds should now be covered four inches deep with clean sand, which should be taken from a deep pit, if

possible, so that it will have no weed seeds

PLANTING THE BEDS.

This may be done in two ways:

1. The vines are pulled from some neighboring beds, without regard to their having roots. They are then run through a hav-cutter and cut into pieces three inches long. The sand should be flooded and then harrowed before planting. The pieces of vines are then sown broadcast over the land and rolled in. After this, the water is let on and the sand kept very moist until the plants have made root. Plants grow as vigorously when planted in this manner as in any other, but the objection is the difficulty of after-cultiva-

2. The sand is wet and marked off into rows one foot apart, and the plants set in the rows about six inches apart. This is done by taking a vine, which may be three feet long, and pressing it down at intervals of six inches, with a blunt stick. It matters not if the vines do not have any roots on them, for they will soon form roots in the moist sand.

If not convenient to obtain plants from cultivated beds, they may be safely taken from productive wild bogs; but wild plants vary much in productiveness. Plants from good-bearing bogs may be obtained from any of the reliable nurserymen in the middle and eastern states.

AFTER-CULTIVATION.

This consists of keeping the beds free from weeds by the hoe, at first, and later, when the vines have become thick, by hand weeding.

HARVESTING.

This is best done by hand picking. The bed should be laid off into strips, with strings, and each picker made to pick one strip clean before being given another. Sometimes, when greatly hurried, the berries may be harvested by means of the rake, and then cleaned by inclined board and brush. But this latter method is shiftless, and not to be generally used. After the picking is all done, no matter what method has been employed, the bed should be flooded, and the wind will flow the dropped berries to the land.

The berries should be carefully sorted, if necessary, to have the grade uniform, and to remove poor ones. They should then be packed in clean, one-hundredquart barrels for marketing.

INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

Eggs of Insect Sent for Name-Measuring Rainfall.—W. S. S., Galesburg, Mo., writes: "I send some eggs, found on my grape vine, to find out if they are something new or not.—Please explain the signal service manner of measuring rainfall. I had an oilharrel standing in the yard during a rain. When I looked, there were five inches of water in it. Is that five-inch rainfall?"

REPLY:-The eggs received are those of the katydid, that is so numerous in your section. They are almost harmless, for while they eat some vegetable matter, they also eat some insects, and the damage from them amounts to almost nothing. - Yes, prohably that is what the rainfall was where the barrel set, but it would not be the correct amount of rainfall unless it was in the open field, free from contact or influence of huildings and set perfectly level. The signal service uses a rain guage that has ten times as much surface at the spreading, fuunel-shaped mouth, as in the hody or cylinder, so that in measuring the rainfall, only one tenth of what is measured in the guage or cylinder is the actual rainfall.

Peach and Quince Queries.—J. S. A., Carlisle, Ind., writes: "I. I want to plant four hundred peach trees, for market mainly. What four varieties would you suggest? 2. In good corn soil, would it he advisable to use fertilizer for say two years after planting? 3. What distance apart should the trees be set? 4. I want to set out ahout two hundred quince trees. At what time will quince trees come into bearing? 5. Is there any advantage in salting quince trees? 6. Is the apple quince as good for market as any other?

REPLY:-1. Would recommend Crawford's Early, Crawford's Late, Old Mixon Free and Stump. 2. Probably it would not be absolutely necessary, but I should add enough potash and phosphoric acid to make sure these foods are in excess in the soil, for I helieve that a lack of these two elements in the soil is more apt to be conducive to weakness and disease than a lack of nitrogen; and then, further, the cost is comparatively little. You might use two hundred pounds of ground Thomas slag to supply the phosphoric acid, and one hundred

pounds of high-grade muriate of potash for the notash (ner acre). If it is found that the foliage is not of a dark, green, healthy color and the trees are not diseased, it would show a lack of nitrogen in the soil. This might he supplied by plowing in a crop of clover or peas. These latter, and similar crops called legnmes, have the power of taking nitrogen from the air when they have plenty of phosphoric acid and potash at hand, and if plowed in, form a cheap source of nitrogen. Or from one to two pounds of nitrate of soda may he applied to each of the trees, according to their size, some time in May or June. 3. Set 10x15 or 121/2x121/2 feet apart, if it is intended that they shall be loaded in; and this is advisable. 4. Two-yearold quince hushes should commence to hear in three years in good soil. 5. I do not know whether there would he or not. Salt acts on the soil to make it firm, and also starts some important chemical action. If the soil is not already too heavy and compact, a little, say twenty hushels, would do no harm, and might he heneficial, hut you will get your best results, probably, from using the fertilizers that I recommended for the peach. Mineral manures are good for fruit trees. 6. The orange (or apple quince is, I think, the most profitable to grow for market.

DRACTICAL HINTS TO BUILDERS.

100 pages, 40 illustrations, 20 short chapters on the kitchen, chimneys, cisterns, foundation, brickwork, mortar, cellar, heating, ventilation, the roof, and many.items, of interest to huilders.

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We now propose to put it into the hands of those contemplating building, together with our lithograph, which, in colors, shows the various styles of Metal Shingles and Roofing we manufacture.

THE NATIONAL SHEET METAL ROOFING CO., 510 to 520 East 20th St., New York City.

10 Pkts. Flower Seeds, 10c. 5 Pkts. Vegetable Seeds, 10c. Cat. Free. J. J. Bell, Windsor, N.Y.

SEEDS Spkts. Flower Seeds, 10c. 5 pkts. Vegetable Seeds, 10c. Full size pkts. All different. 1000 spents wanted at \$55 a day, either sex. Catalogue Free. BIG PRIZE F. B. MILLS, Rose Hill, Onon Co., N. Y.



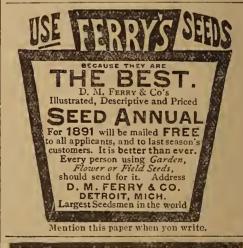
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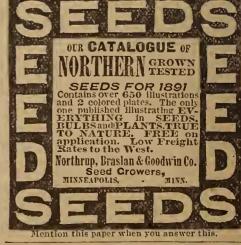
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Per Acre.

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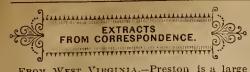
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If you have a Garden If you are a planter of Seeds Apply for our Catalogue for cooking Vegetables—
Our Business was Established in the year 1784.

D. Landreth & Sons, Philadelphia, Pa.



FROM WEST VIRGINIA.-Preston is a large county aud is as wealthy as any other in the state. We have good society, good, free school privileges and good churches. We are blessed with plenty of good water. The soil is medium, and we can grow most of the grains. Our growing season is a little short, and we have pleuty of winter. It is a good place for winter-loving people. We have rather poor markets for our produce. F. N. W. Eglon, W. Va.

FROM KENTUCKY.-Boone county is situated on the Ohio river, ahout one third of the way from Cincinnati, Ohio, to Louisville, Ky. It is generally hilly, with low bottoms along the river from one to three miles wide. Land ranges in price from \$25 to \$100 per acre, according to location and improvements. The principal crop is tobacco, followed by corn, wheat, oats and Irish potatoes. Some fruit is also raised, hut not very much. Rabbit Hash, Ky.

From Michigan .- The past season has been a very favorable one for farmers in this locality. Although the water fall during the preceding year was so light that the soil was not dampened to its depths, yet so opportune have been the rains that all our crops were excellent; while in the great "fruit belt" fruit has been scarce, orchards here have been loaded, and small frults of all kinds abundant. Winter wheat looks well. Prices for farm aud garden produce are better than for many years past. Rig Rapids, Mich. H. C. P.

FROM OHIO .- Madison county is one of the best agricultural counties in the state. Corn was a good crop last year, and it is selling for 53 cents a hushel. We are selling to our ad-joining counties. Wheat was an average crop; oats and potatoes were a failure. London, our county-seat, is one of the largest live-stock shipping towns in Ohio. One week during December there were shipped over the Big Four and Pau Handle roads seventy-five car-loads of cattle and hogs to the eastern markets. In the shipment were forty cars of fine export cattle, weighing from 1,600 to 2,030 pounds each. What town in the state can beat this?

J. G. L. London, Ohio.

FROM WASHINGTON .- Orcas Island is famous for its fruits. The apple, pear, cherry, prune aud plum never fail, while the quince, peach, apricot and some varieties of grapes do fairly well, and all the small fruits grow to perfec-We have three trans-continental railroads within twenty-five miles of us, and will have another within a year. Besides our local markets we have Eastern Washington, Idaho and Montana on the east aud British Columbia and Alaska north of us. The islaud abounds in streams, and good water cau be obtained by digging ten to twenty feet. We have uo hot summers nor cold winters. We have daily steamer communication with all the Sound towns. The island has a population of about 500. We have good schools and two churches. East Sound, San Juan county, Wash. A. K. J.

FROM OREGON.-This is the best country that I have ever lived in to make money, cither at farming, mercantile business or as a day laborer. Land near the business places is as high or higher than in the eastern states. There is plenty of government land for those that may want homes, but I would not advise any one with a good home to sell and come West into a heavily timbered country. Pears, apples, plums, prunes, cherries and all the berries do well here. Real estate is booming here, now. They are working on a railroad and expect to finish it in two years; it will connect us hy rail with the East, North and South. Vessels, steam and sail, are coming and going all the time on the bay. We have no potato or chinch bugs. Fruits are all free from pests. Eggs are 45 cents per dozeu; butter, 35 cents per pound; apples, 75 cents to per bushel: pears, \$1 per hushel: Irish potatoes 11/2 cents a pound; wheat is 2 cents a W. F. C. pound. Marshfield, Oregon.

FROM MICHIGAN.-There are many worse localities than northern Michigan for farming. Another summer has passed and this part of the state has been blessed with a bountlful harvest and good prices for every farm product. There are thousands of acres here that can be bought for little money and would make beautiful farms if they were cultivated iutelligently. There are all kinds of land here-level, rolling and hilly. It is as healthy as any part of Michigan. The winters have been mild of late. Cattle find their own living from April till Christmas, 'and pasture is unlimited. The laud is a light, sandy soil, and can be made to produce anything that will grow in this latitude. I have resided here for the past seven years. The land is timbered with pine, oak, poplar and black cherry, and there are many acres that have no timber at all. There are also swamp lands along the streams that are black muck and very fertile, but hard to clear. I would like to see this part of Michigan settled up. There are railroads all around, and a lake port fifteen miles distant. Now is the time to get a good home

F. A. S.

Fife Lake, Mich.

FROM COLORADO. - Our potato crop was about half a yield last season, owing to the drouth, and prices are one third higher than they have been for several years. The other crops were light. I refer only to my section of the country, which is in the foothills of the Rocky mountains, about 7,500 feet altitude. We depend ou rain here for moisture, while lower down they have to irrigate. Our climate is healthy-cool in summer-in fact, too cool. We cannot raise any very tender vegetables or fruit. The winters are not extremely cold, but are quite long. Our soil in the gulches is rich, black loain, while the hillsides and ridges are clay loain. Potatoes are our main crop for market. We raise from three to five tons per acre, and this year will get 11/2 cents per pound. All other root crops do well here; also all kinds of grain. We have good spring water. Stock will live all winter on the range on the mountains. There is an ahundance of timber for fuel aud improvements. There are a few government claims that can be taken which would make good homes, haudy to school and D. A. L. post-office.

Lamb, Jefferson county, Colorado.

FROM ARIZONA.-I will write you a letter from the southern part of Arizona, where I have lived for the past five years. If the maker of this universe sought to prepare a spot where heauty should be the forerunner of riches, certainly the Salt River valley is that spot. Here is an unending, ever-coustant and never-tiring panorama of all that arouses admiration. There is no other valley which can compare with the Salt River valley. From the crests of the surrounding mountains pour out streams of the purest waters, constantly fed by the melting snows, and as these rivulets widen out from their source they help feed the Salt river, which flows on down past the towns of Tempe and Phœnix till it empties itself into the Gulf of California. The crevices of the hasaltic formation of rocks on mountaiu surface receive the residue of the waters not taken by the mountain streams, and this sweeps through till it reaches the desert, where it disappears into the ground, making it so soft and mellow that there is no trouble whatever in working it. This lovely valley will be more thickly settled in the near future. Eastern farmers coming here in the fall of the year will meet with a surprise in all kinds of fruits or grain. No better stock can be shown in the south-west than that raised right here in the Salt River valley. The crops of alfalfa taken from the fields is something surprising. Whatever crops farmers raise they are sure to be fully repaid for the amount of labor expended on the land. This country has never had a crop failure. We have perfect weather from the first of September up till the last day of May, when the weather hegins to get hot. There are a few days in the summer when the nights get so hot that oue cannot sleep very well. But the wealthy residents can go up into the mountains. It is about two days ride to the foot of the mountains, whose sides are covered with the stately pine and white ash. There they can fix their camps and huut wild deer, bears and wild turkey The day is not far distant when we shall have a north and south railroad to pierce this valley, and then we shall have markets for everything that we raise. We have a brauch railroad connected with the Southern Pacific, called the Maricopa and Phænix railroad, which runs through т. н. м. Tempe and Phœuix. Tempe, Arizona.

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FOOD AND GROWTH.

The duckling will eat twice as much food as the chick, but it will also weigh more than twice as much in two months. It is not the amount of food eaten that regulates the expense, but the ratio of gain in proportion to the amount fed. It matters not how much is consumed, provided you have a corresponding growth and increase of weight. Feed the ducklings heavily and force them.

CROWDING THE MARKET.

It is customary to push all the surplus stock to market in the fall of the year, which reduces prices. In January the prices will begin to advance. It will not pay you to ship at a time when the markets are full. If you have more fowls than you wish to keep, the best way to dispose of them is to use them on your

SWELLED HEADS.

If you allow a draught of air to flow over your fowls at night, the probability will be that you will find their heads and eyes swollen in the morning. The first thing to do is to remove the cause by stopping up the cracks or the ventilatorhole at the top of the poultry-house. The best remedy is to annoint the head and eyes with a few drops of a mixture of one part of spirits turpentine and four parts of sweet oil.

SCARCE EGGS.

Eggs have been very scarce this fall and winter, and prices at no time have been low in the large cities. In fact, there is nothing produced on the farm that brings a higher price than eggs, and we see no reason why a flock of hens should not pay well. In the winter season some farmers have but little cash other than the sum received from eggs; and if they will provide warm quarters and keep the hens comfortable, the supply will be larger, with but little additional cost for production.

LARGE AND DOUBLE-YELKED EGGS.

It is seldom that a double-yelked egg will hatch, though instances have been kuown in which such eggs have produced chicks. When double-yelked eggs are found, it is to be regretted, as they invariably indicate that the hens are out of condition-too fat. A hen in good laying condition will never produce an egg other tban of the normal size peculiar to her breed, and if fat, she is entirely unfitted for laying. If a fat hen is killed she will be found full of eggs, so to speak, but they will be noticed to be of all sizes, and the poultryman will be amazed over the fact that she did not lay; but examination will show that obstructions of fat were the cause, and the hen is then more profitable dead than when alive.

MATING THE BREEDING STOCK.

Unless you desire to hatch chicks, the males can be kept away from the hens. By so doing, a larger number of hens can be kept together, instead of a male and ten hens, for if two males are put in the same pen, they will probably quarrel and fight, and be rendered useless. When eggs are desired for incubation, make up a breeding-pen of ten or twelve of the best hens in the flock; select from those known to be the layers and which have been free from disease of any kind; with them put a vigorous cockerel, not under eleven months old and of a preferred breed, and the result will be satisfactory.

Do not attempt to raise chicks by using eggs for incubation from the egg-basket. and which are laid by hens that you are not sure were the ones that deposited the eggs in the nest; but make up a breedingpen, consisting of selected hens, with a selected male with them, and you will then know the kind of chicks to expect, and also know something of their future prospects; but unless this is done, all your efforts will be like working in the dark.

Be ready for Christmas. The New Parlor Game beats everything for men, women and children. The Elastic Tip Co., Boston, Mass., will mail you the Game for 75 cts., if your dealer has not got it.

LOW COST POULTRY-HOUSES.

We have endeavored to give a great many designs of poultry-houses, and in this issue give two by way of comparison. It is not possible to present a design that would be acceptable to all; hence each reader must compare the whole, and select the one most suitable for his purpose, considering the cost.

Fig. 4 shows a house in which the roof and sides are combined. It may be 16 feet square, 9 feet at the peak, with a board at the bottom 1 foot high; or it may be of any size desired. The cost for material is about \$15, the floor being of earth. It is not so convenient for oue entering it as is the house shown at Fig. 5; but this house gives more room on the ground, at less cost. Windows should be at both ends, and the roosts may be short, so as not to market, and they will retain laying till



FIG. 4.—POULTRY-HOUSE.

attendant.

Fig. 5 shows a double house. This house is 10x16 feet, divided into two apartments, each 8x10 feet, and will cost about \$15. Each apartment will accommodate about ten or twelve fowls, and one ventilator (A) will answer for both. There are two entrances to and from the interior, one at each end (B) and a wire or lath partition, with a door in the partition, separtes the two flocks. This house, like the other, gives plenty of room on the ground, and is more convenient in some respects; but both are good and cheap.

SOMETHING ABOUT MOULTING.

Those who witness the moulting of the hens do not, perhaps, consider how important the operation is to the feathered tribe in general. It is the casting away of the old covering, the putting on of new clothes, so to speak; but the process is a gradual one, requiring three months for its completion. The majority of persons have no patience with a moulting hen. They think she ought to lay when she is moulting, but, if they will reflect a little, they will conclude that nature is economical in her workings, and does not devolve upon her creatures the fulfillment of more than one task at a time. Now, a hen cannot shed her feathers and lay at the same time. It is as much as she can do to pass through the period of moulting safely, for, should she catch cold or become sick from any cause, her system will be too much out of order to enable her to arrive at good health again.

Although the heu becomes, as a rule, rather fat while moulting, this is due to the fact that when her food is assimilated, the feathers require for manufacture are not the best for breeding, except in nearly all of the lime, phosphoric acid rare cases. A person may pay a high

Then, again, during the process of feathermaking, there are other minerals that are urgently demanded by the system, such as iron and sulphur. When the hens are moulting, give them a generous supply of bone meal, charcoal, meat and vegetables; tincture of iron in the drinking water. and a few pinches of red pepper occasionally, makes a tonic for them. The hens that moult the earliest always begin to lay the soonest, and, therefore, it is best not to dispose of those that moult early. When once a hen is through moulting, she has a good start as a layer, and has no further work to do till the succeeding fall but lay, and, if well fed, will do well in the winter, especially if the quarters are warm. If early pullets are well grown, the late-moulting hens may be sent to

> warm weather in the spring, and late pullets will not lay in winter at all, unless they have matured quickly.

IMPROVING WITH EMBDEN GEESE.

The common goose is very hardy, lives to a good age, is singu-

interfere with ingress and egress of the larly free from disease, and requires but little attention from the owner. They are much hardier than any of the pure-bred geese, but lack size. It is singular that the male and female of the pure breeds are alike in color, while the male and female of the common kinds are never alike, the gander being usually lighter than the

Weight is very important in the goose when the carcass is to be marketed, and while we advise our friends to use the common kinds, yet it would be quite an improvement to get a gander of the Embden variety, in order to grade up the stock some. Even with one gander the process will be slow, but every cross-bred goose will be worth two of the common kind. Embden geese will often weigh thirty pounds each or more, and as they are entirely white in plumage, the feathers will sell more readily. Once the breeding stock has been improved and the number to be retained decided upon, only the young geese need be sold, as the old ones are not easily marketed at a profit. Old geese are better breeders than the young ones, and will raise a brood of goslings every year.

THE COST OF PURE BREEDS.

What is a trio of fowls worth? is often asked by some anxious inquirer. In order to answer such a question, we will say that everything depends upon what they are required for. There is a tendency to pay the highest prices possible for what are termed "exhibition fowls." As high as \$100 has been paid for cockerels that are capable of "sweeping" the special prizes and carrying off the honors, but such cockerels, outside of the show-room, and nitrogen that is contained in the price for a trio, and still not be able to

cured. Everything depends upon the mating, and to properly mate fowls requires judgment. It is usually done by endeavoring to overcome a defect in the female by excellence in that respect on the part of the male, and vice versa, but, in all cases, the stock should have as few defects as possible. Some breeds are hard to mate, as the colors of the males and females are so dissimilar. Thus, in order to breed Dark Brahmas, the black-breasted cocks are mated with dark hens in order. to produce black-breasted cockerels, while the penciled or mottled-breasted cocks are nsed for producing nicely-penciled pullets. The Plymouth Rocks are mated in order to produce dark cockerels and light pullets, as the tendency is for the cocks to come to maturity too light in color and the pullets too dark. Very often the pullets are black from improper mating. So, to ask what a trio is worth, depends not only upon the purposes for which they are required, but also upon the breed. Some breeds are harder to raise than others, such as the Polish, while others are not so numerous, as the Wyandottes. The price is also regulated by the season and the age of the trio. MERITS OF THE BREEDS.

the best exhibition stock that can be pro-

There is not a breed known to-day that has not been written up as the best that has appeared, and there is not a breed that is so friendless but that a champion in its favor can be found. Every season we are astonished at the performances of some new candidate for public favor, whose merits so far outstrip all other breeds that those who are unaccustomed to such descriptions believe that all the breeds must take a back position and yield the whole poultry field to the new-

But it is the same story, over and over again. The new breed steps forth, commands admiration, is given the highest place, but soon drops from the head, goes down near the foot, and another aspirant steps in to be king for a short term, as the new breeds are faitbfully tested and given an opportunity to establish all that may be claimed for them. The fact is, however, that, while all new breeds that appear really possess some advantages, their admirers are not so free to give their defects, leaving the farmers to learn that, and as no breed is perfect and none free from some drawback, it will yet be a long time before the "general purpose fowl" is discovered and given the preference over all others.

EGGS FOR HATCHING.

In selecting eggs for hatching purposes, see that they are uniform. Very large eggs, that "bulge" out at the larger part, and which are disproportionate in width to length, seldom hatch, as hens that lay such eggs are usually in an overfat condition, and we may here mention that eggs from very fat bens are nearly always large or exceedingly small. The eggs for incubation should be of normal size, smooth, free from excresences or inequalities of shell and well-proportioned. But we must go beyond the eggs and know from what kind of hens they came. All breeding stock should be in perfect health and in full vigor, the male to be active, and the females industrious in their

search for food. The breed used should be one that possesses some meritorious characteristic, such as good laying, market quality, size, hardiness or adaptability to the climate.

No eggs should be used for hatching except those that have been selected for the purpose. To take a number from the basket, without selecting them, is to incur the risk of securing no chicks, while extra care may result in a good hatch.

BONES AND BONE MEAL.

For laving hens, bones that have been coarsely ground are excellent, as they are digested and used as food. They provide the necessary phosphates and also lime for the shells to a certain extent; they also contain a proportion of nitrogen. Bones, when sharp, also serve as grit, for masticating the food in the gizzard, thus rendering a service as well as providing the materials for the production of eggs. For very small chicks, bone meal is better, and the finer the bone meal the easier it is digested by the chicks. Some persons buy the ground bone, sift it, use the produce, very often, better progeny than coarse part for hens and the finer parts

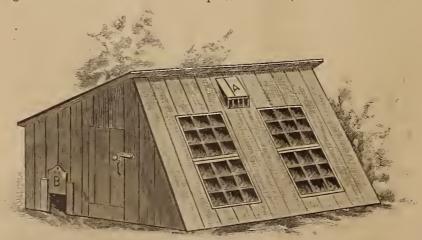


Fig. 5.-Poultry-House

hen may, therefore, grow fat and yet be weak, for she may be richly supplied with certain elements of which she always has an excess, while being very deficient in other elements that are absolutely requisite for the purpose of moulting. As the hen has now to supply her own bodily wants, as well as to grow feathers, she has a great drain on her system, and to neglect her for a single day makes it very precarious for her

food, but require very little carbon. The take a prize, and it is doubtful if any breeder will sell his best, even when the prices asked are readily paid, for they usually send something else instead, not that they do not send exhibition fowls, but do not care to send their best. If a trio is desired for breeding purposes, it can be purchased at a less price than that asked for fowls used for the shows. Although a trio may not score very highly, yet, if properly mated for breeding, will

for chicks. Fresh bones are much better than bones that are dry, as they contain a certain amount of meat and gelatine. Bones are very cheap, considering their value, as the hens will not eat a very large quantity at one time, but if fresh bones are broken or pounded to sizes that can easily be swallowed, the hens will consider them quite a treat and consume a large quantity. They can be broken much more readily when heated in an

NEST-BOX TO PREVENT EGG EATING.

Mr. Luther Robbins, sends a plan of a nest-box which, though simple, is novel in some respects. Mr. Robbins, in describing it, says:

"My hens prefer it to the open nests,



and as the inside of the nest is dark (which the hens prefer), they are not liable to eat the eggs in the nests.

"Fig. 1 shows the exterior of the nestbox, which is 4 feet and 5 inches long and 22 inches wide. It contains four nests, each nest being 1 foot square, making 4 feet, the extra five inches being for the ends and partitions. In Fig. 1 the door to the passage is shown at B, while A A designate hinges, the top being raised when desired to collect the eggs.

"Fig. 2 shows the plan of the floor, there being a walkway, 7 inches wide, the whole length, which may be open at one or both ends, as preferred.

"Fig. 3 is a plan of the entrances to the nests and also of the partition between the walkway and the nests. The holes are ten inches in diameter, the bottoms of the holes being two inches above the floor of the nests,

"The door, or entrance to the box, is 24 inches high, but may be lower if desired; and the legs under the box may be as short or long as preferred.

The inside may be lined with tarred paper, or made in any manner suitable. Slats or wire netting can be stretched around the legs, thus providing a place for sitters or for breaking up sitters. This nest can also be made without legs; or it may be placed outside of the poultryhouse, provided an opening be made in the poultry-house to correspond with B, Fig. 1, the opening of the house and that of the box being brought together."

There is more catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it a local disease, and prescribed local remedies, and hy constantly failing to cure with local treatment, pronounced it incurable. Science has proven Catarrh to be a constitutional disease, and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured hy F. J. Cheney & Co., Toledo, Ohil, is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a teaspoonful. It acts directly upon the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials.

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Mr. Petroff, who had charge of the census of Alaska, estimates the population of the territory at from 35,000 to 38,000. Of this number one seventh are white.

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Mail, address Central Office, KOLA IMPORTING COMPANY, 132 VINE BTREET, CINCINNATI, OHIO.

See New York World, May 18, 1890; Philadelphia Press, May 19, Christian Observer and Medical Journal, April 9; etc., for full accounts of this wonderful botanical discovery. The Christian Evangelist, May 30, 1890, says editorially: "If no other result than the discovery of the Kola plant followed the explorations of Stanley and associates, surely their lahors were not in vain. We have the most convincing proof that it is a certain and unfailing cure for Asthmaln all its forms, and is the most valuable medical discovery of this century."

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CORRESPONDENCE.

ROSE OR SINGLE COMBS.-The claim by Mr. Jacobs that the rose comb is as liable to the effects of frost as the single comb, was both a surprise and novelty to us. We had supposed that this question was universally settled. Our own experience of ten or twelve years has established a conviction which we shall still cling to, even in the face of this over-awing authority, with the tenacity of death to the traditional negro. The position taken hy our friend Jacobs is, in fact, simply absurd. According to this process of reasoning, the fat man must suffer untold misery, in comparison with the lean man, when the mercury drops. The truth of which, as any reasonable man knows, is just the contrary of this. And so the rose comb, on account of heing broad and chunky, permits of a comparatively free circulation of blood, thus enabling it to stand a much lower degree of temperature than the thin, transparent single comb. To assume otherwise indicates —. We hope that Mr. Jacohs will hereafter refrain from so recklessly endangering his irreproachable reputa-W. M. BARNUM.

[We are much ohliged to Mr. Barnum for upholding what he believes to he correct. Facts show that hut few rose combs_fail to preserve their points (tips) during the winter, and while

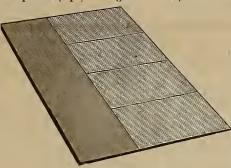


FIG. 2.-NEST-BOXES.

we admit that a large comb contains more blood, yet, as it is more exposed by reason of greater surface, more cold must be counteracted: while it is also a fact that it requires less effort of the heart to force the blood and warmth to a small comh than to a larger. The fine points of a rose comb present large surfaces to the frost, and as they are also thin, they are almost invariably cut off by the frost .- ED.]

INQUIRIES.

Turkeys Picking Themselves.—F. N., Center, Neb., writes: "What is the disease and cure for my turkeys? They hegin picking the knee-joint, and pick until they have great holes in their legs."

REPLY:-It may be hody lice, or it may be the result of some parasite or humor. Annoint with a mixture of four teaspoonfuls of lard, one of wood tar and ten drops of carbolic

Drooping Hens.—C. G., Parma, Mich., writes: "My hens get sick, droop for a month or more, have good appetites, red combs, but finally die."

REPLY:-It may result from the large, gray body lice on the skin of the heads and necks. If leg weakness accompanies the difficulty, the cause is that the male is too large. Remove hens from the male, annoint heads with



melted lard, and add five drops of tincture of nux vomica to each quart of drinking water, allowing no other water to drink.

Breeds and Crosses.—H. O. L., Pollock, Mo., writes: "1. Would you recommend a cross of Silver-Penciled Hamhurgh cock with Plymouth Rock hen? 2. What age should éach be before one should pen them? 3. What breed gives the best results for eggs, and what hreed is hest for market fowl by weight? 4. What kind of fence would you select for a good, cheap and economical poultry fence, and what height?

Brely:—I Wedo not believe the cross would

REPLY:-1. We do not helieve the cross would prove as well as a cross of Houdan and Plymouth Rock, the Hamhurgh being rather tender in winter. 2. From ten months to two years for the male, and from seven mouths and upwards, for the female. 3. Probably the Rocks and Laugshans for large market fowls 4. No. 18 wire, six feet high, makes a cheap and serviceable fence.

A Batch of Questions.—S. L., G., Hummelstown, Pa., writes: "What causes chickens to get such scabby legs when they are healthy otherwise?—How should a poultry-house be ventilated in winter?—What kind of a floor should a poultry-house have?—How should ducks he kept for profit?"

REPLY:-It is due to a minute parasite, which gradually deposits the scaly or rough substance on the legs. Annoiut once a week with lard oil or any kind of grease.—As no system of ventilation allows pure air without loss of warmth, it is sufficient in winter to leave the door and windows open during the day and close the door snugly at night.—A hoard floor is hetter than any other, if rats are kept from under it.—There is no dfference in the keeping of ducks and chickens, other than to allow them more hulky and animal food, and to keep their quarters well littered with cut straw. Use only the large hreeds.

PORTER BLANCHARD'S SONS Co., manufacturers and dealers in everything in the dairy line. were burned out recently at their works in Concord, N. H. They are now located at Nassau, N. H., and are doing husiness ou a larger scale than ever.

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2000 FOWLS FOR SALE. My fowls have won over 700 1st stamps for ill. catalogue. Chas, Gammerdinger, Columbus, O

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not literally besieged for news, as on all former

The throng on the veranda thought of

nothing but the weary-looking girl on the rear

seat, who, leaning over as the team stopped,

clasped Seth around the neck and kissed him

again and again, regardless of the admiring

When the first greetings were over Seth

turned to the men, holding his sister's hand in

"It would take too much time to formally

introduce each one in turn, therefore we will

make it general. Gentlemen, this is my sister

Alice, who, I am certain, will always he

In an instant every memher of the large

party was bowing and scraping as if his life

depended upon the vigor of his movements.

and for a few seconds it seemed to the bewil-

dered girl as if a perfect sea of starched shirt

Mr. Grant, at the extreme edge of the

veranda, was the most active, and as he flour-

ished to and fro with a very large hand on the

left side of the yet larger expanse of white

linen, it appeared as if he would topple over

at each extravagant gesture. He succeeded in

preserving his equilibrium, however, and

when Seth motioned for his sister to descend,

the proprietor of the Palace leaped lightly to

the ground, a smirk of satisfaction over-

spreading his crimson features at the idea of

having thus gotten the best of Limpy Jake,

who had vowed to perform this service or

"You will be obliged to walk from here

pleased to meet her hrother's friends."

fronts was rising and falling hefore her.

occasions.

hut envious audience.

his, and said:

'bust a girth."

Our Fireside.

A BOY'S MOTHER.

My mother she's so good to me; Ef I was good as I could be, I couldn't be as good; no sir! Can't any boy be good as her!

She loves me when I'm glad er mad; She loves me when I'm good er bad; An' what's a funniest thing, she says She loves me when she punishes.

I don't like her to punish me; That don't hurt, but it hurts to see Her cryin'; nen I cry; an' nen W. loth cry, an' be good again.

The loves me when she cuts and sews My little cloak and Suuday clothes; An' when my pa comes home to tea, She loves him 'most as much as me.

She laughs and tells him all I said, An' grabs me up au' pats my head : An' I hug her, an' hug my pa. An' love him purt' uigh much as ma -J. Whitcomb Riley, in the Century.

THE NUGGET OF

GRUB-STAKE GULCH.

BY JAMES OTIS.

CHAPTER I.

THE ARRIVAL.

R. JOSEPH GRANT, hetter known as Conestoga Joe, sat on the veranda, as it was termed by courtesy, of the "Palace billiard saloon," whereof he was the sole proprietor, looking down the single street of the mining camp as if perfectly satisfied with all his surroundings.

He could congratulate himself on having heen the first to bring Grub-Stake Gulch such refining infineuces as might be found in the "Palace." by those who were in a healthy

financial condition, and he it was who had changed the name of the camp to "St. Jnlian," an enterprise of which he was very proud. This appellation was not bestowed upon the gulch because of any idea of doing houor to Cæsar, bnt, as Mr. Graut frequently said, "It looked so fine on a claret bottle that it was hound to strike people as bein' way up for a towu."

On this particular day the proprietor of the "Palace" was idle because the miners were all at work. and the drones of the camp, having long since relapsed into a state of chronic impecuniosity, were uot of sufficient importance to warrant his spending any time with them. He had but just settled himself down for pleasant contemplation of his many services to the public, when his reverie was rudely interrupted hy the arrival of a habitue of the "Palace," known to the citizens of St. Julian as Big Bill.

This gentleman, in the regulation garb of flannel shirt, top boots, into which were negligently tucked a portion of the blue jean trousers, with a revolver drooping carelessly over his left hip, sauntered slowly down the street uutil, having arrived opposite the "Palace," he stopped in front of the worthy proprietor,

who asked, in a friendly tone: "What's up now, Bill? Found another true

veln and want to sell the claim?"

"See here, Joe," and the new-comer spoke impatiently, "don't you think we've had about enough of that joke?"

"What do you mean?"

"You know, au' so do I. The boys want to make out that I salted the claim before I sold

ingly. "He found plenty of color the first much to say regarding the matter during the day, an' since then can't get enough to put in his eye."

"That don't prove nothin'. I sold to him on | the square, an' if I'd know'd it was goin' to peter out like it did, the trade never'd been made,"

"Five hundred was a good pile to pay for a hole in the ground, an' you was mighty lucky to get shut of it at that price. It's none of my business, though. What'er you loafin' for?' "Come up to tell the news, an' kinder 'lowed I might wash the dust outer my throat."

Although he never admitted the fact, Mr. Grant was quite a gossip, and the idea of learning something which could be given to his customers as a relish to the liquids he dispensed under the name of "pure liquors," caused him to be suddenly seized with a spasm of generosity.

Come inside," he said, curtly, and then added, after having placed a black bottle and two not remarkably clean glasses ou the bar, "What's up in pertic'lar?"

"Seth Hammond has had his sister shipped on here from the East," Bill said, with an air of suppressed excitement, as he wiped his mouth with the sleeve of his shirt, after having swallowed the contents of his glass.

"W-h-a-m2"

"It's a fact; she's bound to be landed in this

night." And as if too much pre-occupied with the important news to be aware of his movements, Bill mechanically refilled the tumbler.

"When did you hear about it?"

"Seth jest told me."

"Well, now, ain't St. Julian humpin' herself? There'll he a reg'lar boom here hefore loug, an' the sooner I stake out a quarter section in the suburbs the hetter it'll he. Say, Bill, is the lady married?"

"No, an' Seth 'lows she ain't even got a feller."

Mr. Grant rubbed the end of his red nose reflectively and then examined, by the aid of the mirror behind the har, that very prominent portion of his face.

"Bill," he said, solemnly, after a long pause, "it stands us in hand to fix the thing up in shape when she gits here. It won't do for her to think we're chumps, or that this town is

"The boys are allers ready to staud their sbare of the drinks," Bill replied, musingly.

"You're a fool! This 'ere is a lady, an' she shau't be insulted by any one in the Palace while I'm a runniu' of it."

Mr. Grant was very angry, as might have been told hy the fact that he removed the bottle from the har, replacing it on the shelf as Bill asked in amazement:

"Now, what's crawliu' on yer, Joe? I didn't 'low I was sayin' auythin' agin the lady."

"I dunno as it's your fault, Bill; hut you dou't seem to have any style ahout yer. 'Tain't jest the thing to tell that the boys'll set up the drinks in a case like this. Youth an' beauty is what St. Julian needs to make her a great city, an' it won't do to discourage the beginuin' of the hoom."

All this was said in a fatherly tone, much as

if it cansed the speaker pain to administer the

reproof, and then Mr. Grant returned the

bottle to the counter as a method of restoring

kindly feelings, after which the startling news

stopped," Seth said, sternly, to Blll, who had

"The majority of the hoys were fully a week

welcoming St. Julian, and that should be

enough, particularly so since none of them

are striking it very rich. If you persist in

ularly kind to her, keep quiet."

Stake Gulch changed its name.'

was discussed in all its bearings.

the stage and smuggle her into town during the night."

"Don't do that, Seth," Bill cried in alarm. "We haven't had so many women here that we can afford to lose sight of one the minute she arrives. Why, the boys are gettin' themselves up in great shape on account of her. Limpy has gone over to the Creek for biled shirts, an' pretty nigh the whole gang will show great harness.'

"There can be no objection to anything of that kind, hnt more would be disagreeable. Alice is not well; consumptive tendencies are about all she inherited from her parents, and she is coming here in search of health because I cannot afford to send her to a civilized section of the country. That was why I spent so much time making my shanty a little more comfortable thau the others; and if I can make a strike to buy a pony and saddle, there will he good chance of her growing strong

from the East."

Seth resumed his work, he said, hesitatingly: tough lines for you, I'm willin' to admit, an'

"No, Bill; a trade is a trade, and if I got the worst of it uo one ever heard me grumble. Alice can get along without the pony, and in a short time I hope to strike the vein."

It could easily be seen by the expression on Bill's face that he had but little hope of any such good fortune, and after again vainly urging Seth to accept the necessary amount,

"An outfit of that kind don't cost much." "More than I can pay just now, because all the cash has been used in bringing her out Bill was silent for some time, and then, as

"Some of the boys think you paid too much for this 'ere claim, an' talk ahout saltiu'; hut that's where they're way off. It's been pretty perhaps things can be squared by my autein' up enough to huy the outfit for your sister; she needu't know that I had anything to do

> home," Seth said, as his sister hesitated and then when she descended, hardly touching Mr. Grant's enormous fingers, every Gulcher who could get near the stage scrambled for the houer of carrying a portion of her baggage.

"I have left my packages," Alice exclaimed, as her brother was about to lead her away: and he replied, with a laugh:

"It would he uscless to try for any of them now. The hoys are determined to show that you are welcome in St. Julian."

"They are very much more kind than one would judge from their faces," Alice said, a moment later, when on half turning she saw a long procession of men, some holding a shawl or hook as if it was a living thing not to be touched too rudely, and the remainder of the entire party acting as guides or assistants.

Not until Seth and his sister were inside the tiny house and the goods laid carefully on the floor did the self-elected escort show any signs of leaving them alone, and then, advancing a few paces, Mr. Grant said, with a low box:

"So long as you grace the town of St. Julian with your sweet presence, Miss, every man Jack of us stands ready to give you the biggest kind of a boom. There's nothin' here too good for you, an' I'll bet my bottom dollar that this town will jest get up au' hump herself a-tryin' to make things lively so's you shan't he lone-

At the conclusion of this hrief but eloquent speech the remainder of the party gave three cheers for the new arrival, and then adjourned to the Palace in order to do full justice to the occasiou.

CHAPTER II. DELICATE ATTENTIONS.

During the first evening in St. Julian, while the inhabitants of the town were celebrating her arrival with more uoise than sobriety, Alice discussed the future with her brother.

She had expected to "rough it" while living with Seth, but the reality was even worse than the anticipations, and although having no home, she felt decidedly homesick. The frall structure with four thny rooms appeared anything rather than cleanly or comfortable, and

could read her thoughts: "It is only by comparison that we are able to realize, fully, our surroundings. Wait until you have seen the dwellings in St. Julian, and then this shanty will appear almost palatial. We are just far enough away from the center of the town to avoid seeing the fights which frequently vary the monotony, and yet within hailing distance if assistance is required."

"Do you think I am disheartened?" she asked, with a faint smile.

"It would be strange if you were not decidedly so at first; but after a few days the surroundings which now appear so strange will become familiar, and the invigorating climate is certain to bring back the color to your cheeks. Even if I could have sent you

Before noon the messenger from the Creek The proprietor of the Palace was eager to arrived, and half au hour later no less than make of the coming arrival an important fifty hearded men sat in solemn line ou the public eveut. Not because Miss Hammond's Palace veranda, looking decidedly uncomfortbrother was a good or even a regular customer. able because of the starched lineu they were it to Seth, but I say it was a fair deal." but in order to show how well such things "Looks kinder queer," Mr. Grant said, musanxious to preserve from crease or blemish until the stage came in. Had he allowed it. Seth would have been remainder of the afternoon that his frieuds overwhelmed with attention; but he turued a proposed to appoint a committee, of which he deaf ear to the many committees who visited the claim, arging him to "come an' take someshould be chairman, to make all supposedly necessary arrangements for the intended thin' in houor of the event," and not until dinner time did he throw down the pick and festivities. "What Conestoga Joe, Big Bill an' Limpy Jake says goes," an enthusiastic miner shovel. Then he went up the one street of the town, shouted, naming the committee on receptions, past the Palace, turning sharply to the right over a slight elevation, on the opposite side of "an' what they don't know about sich things which was a small cabin-perhaps "shanty" ain't worth knowin'. Come up, all hands: would be the hetter term-built partially of this round is on me." cauvas and partially of rudely-split lumber. Not until the following morning did Seth The one redeeming feature of this not very Hammond learn of the proposed festivities, inviting-looking home was the scrupulous for he visited the Palace only at rare intervals, ueatness both inside aud out. The empty heef and then the scheme received what Mr. Grant pathetically termed "a black eye." and vegetable cans to be found around the "I want you to see that all this nonsense is other buildings were here conspicuous only by

> come to the salted claim very early to tell of the honor in store for the visitor. "Alice dered it a desirable residence, if, indeed, that could be possible in St. Julian. isn't the kind of a glrl who would like such In anticipation of his sister's coming, Seth things, and if you fellows want to he partichad made what Big Bill would have thought 'Joe has set his heart on it, more so because were elaborate arrangements, and there was hardly more than time to put on the finishing this will be the fust real blow-out since Grub-

their absence, and the short distance from the

more thickly settled portion of the town ren-

he left the iudustrious worker to report to the

There was a very small amount of labor

performed at the galch during the remainder

of this day, except by Mr. Grant's employees.

proprietor of the Palace.

tonches before the stage was due Every "Gulcher," as the inhabitants of St. Julian were spoken of by their neighbors, was at the Palace whou the lumberiug wagon, drawn hy four mules, came to a halt in front 'ere bloomin' town between now an' to-morrer | making fools of yourselves, I'll go out to meet | of the door; but on this day the driver was For Throat Troubles

croup, whooping cough, and loss of voice, the best remedy is

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Ayer's Cherry Pectoral

sufficient money on which to live at some fashionable resort, I doubt if as much bodily benefit could be derived where the mental excitement must necessarily be greater."

"I prefer to be with you rather than anywhere else, however great might be the advantages, and am really surprised that you have succeeded in making such a house look so comfortable. Now tell me plainly bow you are progressing. Since the day on which the claim was purchased I have heard very little regarding your prospects."

Seth sighed. The cheery smile faded from his lips, and it was with evident disluclination that he replied:

"If I didu't tell the exact truth you would be sure to hear it from some of the boys, therefore it is best you understood the true position of affairs."

"Is it so bad that such a long preface is necessary?" Alice asked, as he hesitated an

"Except for the fact that the prospects seemed so flattering at first it would not be; but I allowed myself to be elated, and must suffer a corresponding depression. There can be no question but that the claim was salted." "What do you mean by that?"

"Gold had been buried by the fellow who owned it, and when the first tenderfoot came along, which chanced to be me, the indicatious were that sufficient would be taken out to make good the purchase money, even though a true vein could not be found.'

"Then, since coming here you have dug no

"The only color seen has been what had beeu placed there by Bill, as I firmly believe." "Wby not try somewhere else?"

"For several reasons. The first and most important is that my capital has been nearly exhausted. I am comfortably fixed, own cousiderable land which will be valuable if the Gulch continues to increase iu population, and lastly, I cannot give up all hope of striklng it rich some day, because two trne veins have been discovered near me. I shall bold out until there is no longer any possibility of believing fortune will smile on me."

Until a reasonably late honr in the evening the brother and sister discussed the condition of affairs, and when they finally retired, the shouts and songs, with uow and then an occasional pistol sbot from the direction of the Palace, told that Mr. Grant and his friends were yet industrionsly engaged in celebrating the new arrival.

Seth was an early riser, as every bacbelor who acts as his own housekeeper is forced to be; but Alice was already in the little, illycontrived kitchen when he entered.

"Why did you get up?" be asked, reproachfully. "I iuteuded that you should have a

"I was awake, and wauted to get breakfast before you started on your journey."

"What journey?" Setb asked in surprise. "I am intending to go nowhere except to the claim."

"Then why are so many horses fastened near the honse?"

Seth opened the door. Four ponies, saddled and bridled, were picketed close by, and from the mane of cacb hung a long strip of brown paper. Hastily examining these unusual adornments Seth read in turn:

"Fur mis alice." "For the fairest flower in St. Julian." "The putyest girl oughter have the fastest boss." "Keep him from yures til

Nearly convulsed with inward laughter, and not daring to give vent to bis mirth lest some of the doners should be in the immediate vicinity, Seth beckoned for his sister to read the inscriptions, and when it was possible to speak intelligibly, he told of the conversatiou regarding a pony just before her arrival.

"Bill has told the other boys, and this is the result," he added. "The first pony is his; the second I am certain was sent by Conestoga Joe, but the others I fail to recognize."

"But what shall we do?" Alice asked in dismay. "We cannot keep them."

"Certainly not. I will take them down to the Palace at once; but it's going to be a hard b to make the owners receive their property. I had rather undertake almost anything else. But what can't be cured must be endured."

To Alice there was nothing comlcal in this anonymous presentation of four ponies. She thought only of the kindly feelings which prompted the gifts, and felt almost distressed at the thought of being obliged to send them back without thanking the donors in person.

'I hope you arranged the matter in such a manner that the gentlemen won't feel hurt," sbe said, when Seth finally returned, literally shaking with suppressed mirtb.

"There is no doubt about that, although it was far from being an easy matter. I really believe you could bave every pony in camp by simply expressing such a desire. Half a dozen of the boys, including Conestoga Joe, are ready to lay the most vigorous siege to your heart, rather as a matter of pride than affection, and tbe important question is whether I shall be warranted in putting you in a cage to prevent a too early departure from the nest."

Alice very plainly intimated that there was no reason wby Seth should feel any particular anxiety in the premises, and prevented bim from making a reply by announcing that breakfast bad been ready so long it was absolutely necessary to partake of the food at once, or take the chances of losing it entirely.

When the meal had been eaten it was con-

siderably later than Seth usually began work, and he was forced to hnrry from the bouse with no more of a leave-taking than was contained in the words:

"If you get lonesome before noon, ask anyone to show you where 'Hammond's folly' is located, and then you can see the hole for which I paid five huudred dollars."

"I certainly do want to see lt, but don't intend to gratify my curiosity until after this house has been set to rights."

Seth started out, feeling more encouraged than ever before since his arrival at the Gulch, for now he had a real home to which he could come when the day's labor was ended; and Alice busied herself with the household duties, fully resolved to aid ber brother In the struggle for gold by every means in her power.

Ouly a man wbo has kept bachelor's hall knows how much one pair of woman's bands can accomplish in the way of bringing home comforts out of the chaos caused by awkward housekeeping, and Setb began to have some idea of this when he returned for dinner with the old story that thus far bis labors were apparently useless.

"We may be obliged to pull up stakes and turn prospectors," he said, cheerily, "but that won't bappen for some time yet."

"Dldn't you find anything to give you courage?"

"As a matter of fact, I have done very little work because of the many visitors who were eager to learu what you thought of St. Julian; but now that curiosity has been at least partially satisfied, I may have better news to-night."

"And, in the meauwhile, we are rapidly devouring your small capital."

"It can't be helped. Even in the gold mines one requires a certain amount of money which must be expended on a venture that is more often a losing than a paying one."

Then Seth went to work again and Alice busied berself about the small house until the declining sun allowed the heralds of approacbing night to cover the earth with a sombre mantle. But Seth had not returned as he

Quite naturally her first thought was that some accident had happened; but she tried to console herself by saying that the miners would bave informed her at once in such a case, and continued her labors an hour longer, when the suspense became so great that it was impossible to remain at home.

"I must go to learn why be does not come," she said to herself, winding a light scarf around her head and sboulders after a most picturesque fashion. "He surely wouldn't remain away so long without some very serious cause."

Her hand was already on the latch of the door when a loud knock sent the blood bounding through her veins in fever flood, for the first thought was that the messenger had come to tell of some disaster.

Not until fully a minute elapsed could she summon sufficient courage to open the door, and before her stood the proprietor of the Palace, with one huge hand on the left side of his now crumpled shirt, as he bowed after the most approved reception manner.

"What bas bappened?" sbe cried, in a shrill tone of undefined terror. "Where is Seth?"

"Down at the lower edge of the Gulch tryin' to stand off a lot of the boys who allow there's nothin' to be done but string up a hoss thief we caught this afternoon. I'm willin' to go considerable on his pluck, but jest now he's on the wrong side, an' is bound to be downed."

"What do you mean?" she cried, in perplexity, not understanding the slang of the Gulch. "Is Seth hurt?"

"No, but I'm afraid he will be if we can't do somethin' to kinder amuse the boys. You see, he's backed up the wrong tree, for we nabbed the stranger on Jake's hoss what was stole last week, an' out this way a little bemp around them fellers' necks is the only thing tbat'll cure the disease of lightin' out with bronchos what don't carry the right brand."

"Tell me where Setb is?" Alice asked, imploringly, yet further bewildered by the odd manner of speech.

"Why, I told you he was tryin' to stand off a lot of the boys," Mr. Grant repeated, surprised that his very plain words had not been under-

"Then be is safe?"

"For a while; but I can't say how long, an' seein's I couldn't do him any good, it struck me you might persuade him to come away till the fun is over. It's the first hoss thief we've caught in St. Juliau, an' we're bound to do the square thing."

"Shall I come with you?" Allce asked impatiently.

"If yon'd be so obligin'; it would make the boys turn pretty nigh green." And again Mr. Grant indulged in a series of wonderful contortions which were only ended as Alice came out of the house with the evident intention of finding her way to Setb unaided.

Her face had paled to the hue of death, save on either cheek where fiamed a spot of crimson, and for a few seconds she appeared to think herself aloue.

"It kinder broke me all up when you sent the pony back this mornin', for I counted on you takin' bim in as his owner would like to be taken," the proprietor of the Palace began; but Alice interrupted him by asking, in a voice which sounded strangely unnatural, even to

"Was I mistaken In thinking from what you 21st Street, New York.



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said that the miners were trying to lynch a

"Not a bit of it, an' I want you to get Seth outer the way so it can be done in style. It would jest about break me all up if the affair didn't go off as it oughter. You see-"

"Are you in favor of banging a man without giving him a chance for his life?" Alice cried, sharply, hurrying forward yet faster as sbe

"That's jest what be has had. We caught him on Jake's broncho, an' I don't allow there's much more to be said. He couldn't clear himself now if he was to talk till he was black in the face."

"But it is murder!" And now Alice was literally running, although wholly ignorant of the proper direction.

"Wait till you've lived bere a month an' you'll see that it's nothin' more'n a square deal. Take my arm, an' let's bave a cbat; I reckon Seth will hold 'em off a while longer, though you must coax him away as soon as you can after we get there."

"Did you think I would ask bim to leave a fellow creature to be mnrdered?" sbe asked, turning upon him so suddenly that be was forced to halt.

"But this ain't a fellow creature, Miss Hammond; he's a hoss thief!"

"In which direction are we to go?" was the stern question.

"Straight down the road till you come to the big cottonwood."

Alice waited to hear no more. She started off at full speed, leaving ber astbmatic admirer to follow as best be could, and intent only on saving a human llfe, although how this might be done she had no definite idea.

[To be continued.]

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DONALD KENNEDY,

ROXBURY, MASS.



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Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several

Our Household.

SUN AND RAIN.

A young wife stood at the lattice pane, In a study sad and "brown," Watching the dreary, ceaseless rain, Steadily pouring down-

Drip, drip, drip, It kept on its tireless play, And the poor little woman sighed, "Ah, me! What a wretched, weary day!"

Au eager hand at the door, A step as if one in haste, A kiss ou her lips once more, And an arm around her waist!

Throb, throb, throb, Went her little heart, grateful and gay, And she thought with a smile, "Well, after all, It isn't so dull to-day "

Forgot was the plashing rain, And the lowering skies above, For the sombre room was lighted again By the blessed sun o' love! "Love, love, love!"

Ran the little wife's murmur'd lay; "Without it may threaten and frown if it will; Within what a golden day!"

HOME TOPICS.

ARE OF ROOMS .-- In the first place, supply yourself with the necessary conveniences for sweeping and dusting. If you have a house of medium size to take care of, don't try to make one old, stub broom do duty for the whole house. It is not economy, for it will wear out your carpets twice as fast as a good broom. Have a broom for the parlor, another for the chambers, and keep it upstairs with a dust-pan, so as to save running up and down stairs. After sweeping the chambers, empty the dust into a paper, carry it down and put it in the stove; then your dust-pan will be there when you want it again. After oue of these brooms is too much worn for use in parlor or chamber, take it for the kitchen.

A good whisk-broom is needed to brush out corners and upholstered furniture, and I like it best for sweeping the stairs. Have a feather duster for books, pictures and ornameuts, and a soft dust-cloth for other dusting. Turkey wings and bunches of the tail feathers will answer the purpose of feather dusters. If you have time, a nice duster can be made of the tail feathers by putting them on a handle. I have made them, using a piece of an old parasol handle, and putting on row after row of the feathers, winding each time with a stout twine, and sewing a piece of red flauuel over, after the feathers are all on, to cover the ends.

A bag made of canton flannel, with the fuzzy side ont, and with a draw-string, to be drawn on over the broom, is nice to dust the walls or a painted or stained floor, and will save washing the floor a great deal. I made several of these a few days ago, and also three or four dust-cloths, from an old, cloth outing wrapper, and find them very nice. Cheese-cloth or old cambric makes good dusters.

When doing the regular sweeping, it is a good plan to have covers for the large pieces of furniture that cannot be moved out of the room. Old sheets or squares of calico will make these.

To sweep the parlor, begin by taking all rnaments from mantel and brackets, dust them and put them away. Roll the shades to the top of the windows, shake the curtain drapery and tuck it up out of the way. Take the rugs out, shake and ing babies. hang them on the liue; dust all the chairs and small pieces of furniture, and set them out of the room; dust the large pieces and cover them. Brush out the corners of the room with the whiskbroom, also under book-cases or heavy articles that cannot be moved. Then open the windows and sweep towards the middle of the room, and take up the dust there, if the floor is carpeted all over. If a large rug is on the floor, with a strip of bare floor around it, sweep the rug thoroughly, then around it, and take up the dust. After the dust settles, dust the walls, woodwork and pictures, wipe the bare floor, if there is any. It will brighten the carpet to have a clean, white cloth in a mop, wring it out of clear water and go over the carpet with it, rinsing it out as often as necessary; this will take up the dust that settles after the sweeping.

In dusting with a cloth, wipe the articles and shake the cloth occasionally out of the window. A chamois-skin is dresses can be had at half-the price before. !

the best duster for piauos and nice furniture. A good one will only cost twentysoiled, wash them with soap and cold water, and after they are dry, a little rubbing between the hands will make them as soft as ever. Proceed in about the same manner with other rooms, and when you are through your house will be thoroughly clean.

NIGHT-CLOTHES .- Clothing that is worn during the day, ought never to be worn at night. It seems hardly necessary to say this, and yet I know intelligent people who never change their underclothing at night, during cold weather, and argue that it would be a waste of vitality to do so, as if clothing absorbed vitality from the body and then gave it back again.

Everyone should have sleeping-garments made of cotton or wool, and on retiring, remove every article which has been worn through the day. Heavy, unbleached cotton makes very good gowns for winter. Where wool is worn during the day, cotton is usually better for night, as there is danger of overstimulating the skin if wool is worn constantly.

If a cotton garment is not warm enough, wear a short wool sack over the cotton gown. These are useful for young children who are apt to throw their arms out



GIRL'S SCHOOL DRESS.

of bed, and also for the mothers of nurs-

Persons who are troubled with cold feet, will be made more comfortable by wearing loose, wool bed-socks, warming the feet well and giving them a brisk rubbing just before retiring.

MAIDA McL.

GIRL'S SCHOOL DRESS.

After Christmas there is always a giving way of the winter clothes, nearly always in the waist and sleeves. A suit can often be taken apart, the material washed, a little new trimming added, and it will take on a new lease of life for the remainder of the winter and do for the cooler days of

Our model, made in dark gray and red, black and a dull plaid, or a plaid trimmed with plain, is very effective.

Just after the holidays there is always a clearing-out sale of stock, and very nice goods can be bought cheap at this time. Short lengths that make nice children's

It always pays to get good material for school wear, as it costs the same to make five cents and will last for years. When it, and poor materials wear shabby so soon, and then is shabby to the end. Heavy cloths, bourettes, serges and such materials are the best for service. Heavy braids, Hercules braids, should be used to trim them.

SOME DAINTY DISHES FOR THE FARMER'S HOUSEHOLD.

While the country housekeeper has not the advantages of the city market, she has material for making very excellent dishes on the farm, some of which are not used at all, such as beef kidneys and livers, calf's head and feet, tongue and sweet breads, as well as other articles of food equally good if prepared with variety. The following recipes are all economical and will be found acceptable to the farmer's family.

SPICED BEEF'S HEART.-Soak a heart three hours in cold water. Mix one teaspoonful of allspice, half a teaspoonful of cloves, half a teaspoonful of cinnamon, quarter of a teaspoonful of mace, half a grated nutmeg, three tablespoonfuls of vinegar and half a teaspoonful of pepper. Put this mixture into the heart, rub well over the outside and stand in a cold place over night. In the morning wrap in a cloth, put in a sauce-pan, simmer slowly for three hours; take out, remove the cloth, brown in the oven, set aside to cool. Slice thin for tea or lunch.

LARDED AND SPICED TONGUE.-Wash a fresh beef's tongue, put it in boiling water and simmer gently for two hours; take up, skin and trim off the roots. Put two ounces of butter in a sauce-pau, let brown, add two tablespoonfuls of flour; stir and pour in a quart of the water in which the tongue was boiled, stir until it comes to a boil and add one chopped onion, one sliced carrot, half a teaspoonful of ground cloves, half a teaspoonful of allspice, half a teaspoonful of black pepper and a teaspoonful of salt. Lard the tongue with narrow strips of bacon, put it into the stew-pan and simmer for two hours. Take

up, pour the sance over and serve. DRESSED CALF'S HEAD .- Saw the calf's head into halves lengthwise. Take out the brains and put in cold water. Wash and clean the head well, put iu a kettle, cover with boiling water, set over a moderate fire; add one onion, one stalk of celery, three or four cloves and a teaspoonful of salt; let boil slowly till tender. Skin the brains, put in a small sauce-pan, cover with boiling water, add a teaspoonful of salt and let simmer fifteen minutes; take out, chop and set aside. When the head is done, take from the water, remove the tongue, skin and slice thin. Trim all the meat from the bones, lay it with the tongue and brains in the center of a heated dish. Prepare sauce with one tablespoonful of butter and two of flour mixed together and put in a fry-

ing-pan with one pint of soup stock; let boil, season with a teaspoonful of mushroom catsup, a tablespoonful of Worcestershire sauce, a little salt and pepper. Let simmer five minutes and pour over the head. This is a delicious

BRAISED CALF'S LIVER.-Wash quarter of a pound of salt pork. Wash and cut one onion, one turnip, one carrot and one stalk of celery; 'put them in the bottom of a braising-pan or a deep baking-pan; lay the liver on the vegetables, add stock or water to cover, put a lid on the pan and bake in a moderate oven for two hours. When done, take up the liver. Put an ounce of butter in a frying-pan and stir until brown, add a tablespoouful of flour; mix and strain the liquor from the other pan into this, let boil, season with mushroom catsup, Worcestershire sance, salt and pepper. Pour over the liver and serve. STEWED SWEETBREADS .- Take two

plump sweetbreads and soak in salt and water for one hour, then parboil in fresh water, take up and press between two plates until cold. Remove the skiu and gristle, put them in a sauce-pan, cover with half a pint of soup stock and stew until done; take up, drain and pour over mushroom sauce.

BEEF BRAIN CROQUETTES .- Wash the brains, skin, put in a sauce-pan and boil until tender. When done, throw iu cold water; when cool, chop fine, mix with needle the loops along the edge of the

some of the liquor in which they were boiled and add half a pint of milk, a tablespoonful of butter, two of flour, one tablespoonful of chopped parsley, a teaspoonful of onion juice, a teaspoonful of salt, a little cayenne and nutnieg; put in a saucepan, set on the fire and beat until well mixed, then turn out on a dish to cool. When hard, form in croquettes; dip first in egg and then in bread crumbs and fry in boiling lard. Garnish with parsley and serve hot.

KIDNEY, TERRAPIN STYLE.-Prepare and clean fresh beef kidneys. Put a tablespoonful of butter in a frying-pan; when melted add a tablespoonful of flour, mix, add a half pint of milk, stir until it boils; cut the kidneys in small pieces and put in with salt and pepper to taste. Stir until done; take from the fire, add the yelk of a beaten egg, the juice of half a lemon, a teaspoonful of currant jelly and a tablespoonful of chopped parsley. Serve immediately. ELIZA R. PARKER.

WINTER FLOWERS.

I wish all the dear flower lovers of the household could take a peep in my bay window to-day and enjoy with me my lovely flowers.

Chinese lilies, Roman hyacinths, narcissus, geraniums, fuchsias and begonias, all in full bloom and filling the window with beauty and the room with fragrance.

There were some lovely tea roses and white carnations there this morning, but all were cut and sent to a little friend's birthday party this evening. The chrysanthemums are nearly all gone and have been carried to a light room in the cellar, where they will ripen their seeds for next season's plants. I find that it pays to raise plants from the seed, for in that way many new varieties are obtained.

So I save all the seeds from my fine collection of early and late chrysanthemums and in March or April I sow them in a box of rich soil, and when they are three or four inches high, transplant to threeinch pots; as soon as the pots get filled with roots, shift into larger pots.

When the plants bloom I can tell what plants are worth cultivating, and those that are single or of poor form or colorare thrown away.

I have received quite a number of letters from other flower cultivators and the editor has forwarded several that were sent her for me.

Now, dear friends, please don't bother the editor with letters for me, but send them to my address as given in FARM AND FIRESIDE; they will surely find me.

CHATTA BELLA.

Box 126, West Branch, Mich.

GENTLEMEN'S SOCK.

Use Starlight Spanish yarn, four steel needles, No. 15. Cast 36 stitches on the first needle, and 28 stitches on each of two other needles, making a total of 92 stitches in the round. Knit 36 rounds of ribbing, 2 stitches plain and two stitches seam. The remainder of the sock is worked in plain knitting. Mark with a thread of cotton the two seamed stitches iu the center of the first needle, and seam them for seam stitches in the first round and in every alternate round doing 30 rounds.

Thirty-first round-Begin decreasing for the leg; when 3 stitches before the two a calf's liver and lard it with a seam stitches, narrow, 1 plain, seam 2 seam stitches, 1 plain, slip one, 1 plain, pass slip stitch over, knit to the end of the

> Knit 9 rounds. Decrease the same way in the forty-first, fifty-first, sixty-first aud seventy-first rounds, reducing the number of stitches to 82 in the round. Knit 30 rounds for the ankle.

> For the heel, knit to the seam stitches, seam those, 20 plain, turn 'the work, slip the first stitch, seam 41. Leave the other 40 stitches as they are, divided upon two needles till the heel is finished.

> Third row of the heel-Slip 1, 19 plain, seam 2, 20 plain.

> Fourth row-Slip 1, seam 41. Repeat these two rows till 34 rows are knitted. Then to shape the heel, slip 1, knit to within 3 stitches of the seam stitches, slip 1, 1 plain, pass slip stitch over, 1 plain, seam the 2 seam stitches, 1 plain, uarrow, knit plain to end. Seam a row. Repeat these two rows 4 times, then bind off. Hold the cast-off stitches together and sew up.

> For the gussets, hold the heel the right side towards you, and pick up on one

heel from the right hand corner of the instep needle to the seam at the bottom of the heel, knitting each as you pick it up, and making 28 stitches; on a second needle pick up the loops thence to the left-hand corner of the instep needle, again making 28 stitches; on third needle knit the 40 instep stitches. Knit 1 plain round. Then * on first foot needle, 1 plain, slip 1, 1 plain, pass slip stitch over, knit plain to within 3 stitches of the end of the second foot needle, narrow, 1 plain, knit plain along the instep needle; knit I plain round.

Repeat from * till reduced to 80 stitches in the round. Knit straight on round and round till the foot measures 6 inches or 6½ from the picked-up stitches.

For the toe-* on the first foot needle, 2 plain, slip 1, 1 plain, pass slip stitch over, knit plain to within 4 stitches of the end of the second foot needle, narrow, 2 plaiu, on the instep needle, 2 plain, slip 1, 1 plain, pass slip stitch over, knit plain to within 4 stitches of the end of the needle, narrow, 2 plain, knit 1 plain round.

Repeat from * till reduced to 24 stitches. Slip the 12 foot stitches onto one needle, turn the sock wrong side out, lay the needles level with one another and bind off by knitting together a stitch from each needle.

TALMAGE SAYS "SLEEP."

T. De Witt Talmage says: "There is not one man or woman in ten thousand who can afford to do without seven or eight hours' sleep. All those stories written about great men and women who slept only three or four hours a night, make very interesting reading, but I tell you, my readers, no man or woman ever yet kept healthy in body and mind for a number of years with less than seven hours' sleep.

"Americans need more sleep than they are getting. This lack makes them so nervous and the insane asylum so populous. If you can get to bed early, then rise early. If you cannot get to bed till late, then rise late. It may be as Christian for one man to rise at eight as it is for another to rise at five. I counsel my readers to get up when they are rested. But let the rousing bell be rung at least thirty minutes before your public appearance. Physicians say that a sudden jump out of bed gives irregular motion to the pulse. It takes hours to gct over a too sudden rising. Give us time, after you call us, to roll over, gaze at the world full in the face and look before we leap."

PANSY CUSHION.

Felt and velvet combined promises to be a favorite decoration this winter. The pin-cushion illustrated is of pale blue satin, the pansies are of pale blue felt, a shade darker than the satin; the upper petals are of velvet. A sixteenth of a vard of felt and as much of velvet would fur-

PANSY CUSHION. nish pansies for enshion, handkerchiefbox and jewel-case. Three patterns are used. One should be cut from velvet, and the other two from felt; a thread of yellow should outline the eye, and a single stitch of bright green in the center gives it a natural appearance. The lines may be put in with black sewing silk, with pen and ink or with the brush. If one is skillful with the latter, a bit of

shading in the right place may be used.

White pansies with blue markings and

fine, narrow, button-hole stitches on the

center of the lowest petals, are pretty board, then run it through the wringer. mixed in with the blue. The stems are narrow strips of olive green felt, and the leaves are of the same material.

KITE LACE.

Cast on eleven stitches and knit across

First row—Knit 2, o, n, o, n, o, n, o, n,

Second row—Knit plain.

Third row-K 2, o, n, k 2, o, n, o, n, k 1. Fourth row-Knit plain.

Fifth row—K 2, o, n, o, k 4, o, k 1, o, n,

Sixth row-Knit plain.

Seventh row-K 2, o, n, o, k 6, o, k 1, o,

Eighth row-Knit plain.

Ninth row—K 2, 0, n, 0, k 8, 0, k 1, 0, n,

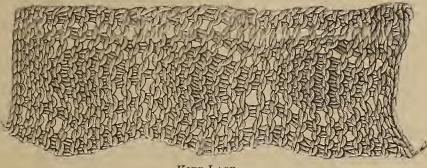
Tenth row-Knit plain.

Eleventh row-K 2, o, n, o, n, k 1, n, n, k 2, 0, n, 0, n, k 1.

Twelfth row-Knit plain.

I then rinsed them thoroughly in very warm rain-water and hung them on the clothes-line until they were almost dry. I had my irons heated ready to begin work when the clothes were ready. I covered my ironing-sheet with a very dark piece of cloth to prevent getting lint on the clothes. I had a piece of black cloth which I wrung out of warm water and laid on the right side of the clothes. I iroued the clothes with the cloth between the iron and them, dampening it as fast as it became dry. I exercised great care in preserving the shape of the pantaloons and sleeves. It required a great deal of careful work, but I felt amply rewarded for my trouble, as the suit had the appearance of a perfectly new suit. Having been so successful in my first

venture, I decided to try my hand on a black cashmere dress of my own. In this case I added a little borax to the washwater, otherwise the same method was



KITE LACE.

Thirteenth row-K2, o, n, o, n, n, k1, n, employed, and the result is as pleasing as o, n, o, n, k 1.

Fourteenth row—Knit plain.

Fifteenth row-K2, o, n, o, n, k1, n, o,

n, o, n, k 1.

Sixteenth row-Knit plain.

Seventeenth row-K 2, o, n, o, n, n, o, n, o, n, k 1.

Eighteenth row-Knit plain.

Ninetecnth row-K 2, o, n, o, k 1, slip and bind 1, 0, n, 0, n, k 1.

Twentieth row-K 5, n, k 5.

K means knit; o means throw the thread over; n means to narrow. (Knit two ELZA RENAN. stitches together.)

SOMETHING ABOUT JOHN'S BEST SUIT OF CLOTHES.

Perhaps the majority of the lady readers of the FARM AND FIRESIDE have, as a part of their regular work, the supervision of a father's, husband's, or brother's wardrobe, and they understand, as no one else can, how much that involves. It is very easy to soil clothes, but a rather difficult undertaking to clean them, and the professional scourer-a great convenience to the city housewife-is an unknown quantity to most farmers' wives. But, fortunately, many farmers' wives clean nice clothes quite as satisfactorily as the professional cleaner, and let me whisper, save the enormous charges the professional scourer would certainly demand.

John had a very fine suit of black clothes that, somehow or other, he had managed to soil very badly; not one piece alone, but the three pieces. I did not know what to do with them. Brushing had no effect on them. They looked very much as if oil had been sprinkled over them and a liberal peppering of dust added afterwards. When anything is but slightly soiled

I usually clean it with gasoline, but a suit of clothes would require more gasoline than I could possibly spare. Finally I concluded that I could certainly make them no worse in appearance whatever I did, and the chances were that I might make them con-

siderably more presentable than they were. I resolved to try, anyhow. So, one fine, sunny morning I heated a boiler full of rain-water, not cistern water; I had it quite warm, and with my own make of hard soap I made a good suds. (I used my own soap because I knew it was good, and then, too, I had no factory soap on hand.) I plunged the clothes into the suds and allowed them to remaiu soaking ten or fifteen minutes. Then with a stick I pounded them vigorously some minutes, then I turned each piece inside out and rubbed it on the wash-

I could wish, as neither the suit of clothes nor the dress have shrunk a particle.

Be sure that the rinse-water is as warm as the wash-water, and select a warm day to do such careful work if you would avoid that shrinkage which troubles so many housekeepers who clean their own ELZA RENAN. woolens.

USEFUL HINTS.

Throw away Concord grapes? No, by no means. Until this year my large vine, which is not much, if any, less than thirty years old, and which several have declared bears the sweetest grapes they ever tasted, has beeu freer from rot than any other variety. This year I found the grapes on oue side of the vine decaying badly, partly, perhaps, the result of a heavy hail storm. Having once arrested decay of Isabellas by picking off all brown leaves and decaying grapes and burning them, and then treating the vine with a liberal springling of wood ashes, I tried the same on Concords, with a like result.

Now, some will think this too much trouble, but can we expect to have nice fruit without painstaking? Some, doubtless, like the Syrian leper, will think the remedy too simple, and will prefer to do some great thing; but I believe if the ground for some distance around grape vines could, every fall, have a liberal dressing of ashes, it would pay. I wrote Lewis Roesch, the great Fredonia grape grower, my opinion about ashes for grape vines, also that a gentleman from California, whom I met at the Centennial, told me that California grapes would not hurt any one, for there was so much alkali in the soil there. Mr. R. replied: "I think as you do about wood ashes." So you see I am not alone in my opinion.

Now, I want to tell the sisters how I took care of my grapes. I picked off all green and imperfect grapes, washed the clusters, packed them in Mason glass jars, pushing down stems with a spoon, sprinkling with granulated sugar as I packed; set the covers on lightly, folded a towel and put in bottom of tin boiler, set cans on, set boiler on stove and filled nearly to top of jars, and let the water boil until the grapes were cooked enough; I then screwed covers partly on, and took jars to table, setting them ou a folded towel, and finished screwing on covers. I can assure you, when witter comes, grapes put up in this way will surprise any one by their freshness; and the juice is delicious.

To make jelly, I took grapes not overripe, squeezed the pulp from the skins, and pressed out a little of the juice from the skins-not enough to make a dark color—set a brown earthen dish in a pan of water, and boiled until pulp could be easily mashed with a spoon; strained twice: boiled juice about twenty minutes, while granulated sugar was heating in a baking-pan in oven; poured sugar, hiss-

poured into tumbler. It is light and handsome in color, but might have been a trifle clearer if I had strained it into the glasses. Let it stand uncovered while cooling, and then put on paraffine paper or a paper with just enough butter on to make it translucent, pressing closely around the edge, and my jellies, kept in a dark, dry and rather cool place, keep for three years, with no mould on them.

Did any of you ever make sweet corn or watermelon jelly? I took premiums on both; the watermelon jelly is made much like other jelly. Corn kernels split with a sharp knife, scraped from the cob, strained and made like other jelly, is very nice when first made, but will not keep long unless canned.



DUR IMPROVED NOVELTY RUG MACHINE uses 2 needles; coarse needle for rugs, mittens, &c., and fine needle for zephyrs or silk, or plush or velvet. Machines sent hy mail for \$1,10. Price list of machines, rug patterns, fine embroidery, patterns on niuslin, yarns, zephyrs, plush, &c., sent free. Liberal terms to agents. E. ROSS & CO., Toledo, O. State where you saw this advertisement.

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I WANT
Pleasant, Moral Stories for the Young People,
That the Children may Look for the Paper
As they do for a Friend.

I WANT Stories of Interest for Elders, For we, too, Like our Hours of Leisure.

THIS IS WIT.

I DON'T WANT
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The Padding Doesn't Add to the Value,
And I Haven't Time to Read them.

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ing hot, into juice, let it boil up, and John Dougall & Co., 150 Nassau St., New York,

Our Household.

A CHEAP STORM-DOOR.

H, how the wind would whistle through the crevice between the door and the door-frame! Did not the carpenters of thirty vears ago know how to hang a door properly? Certainly they did, for doors fit snugly into their frames then. But in the long time between then and now, much of the door had worn away. A new door was not to be thought of; but a remedy for the discomfort the chilling winds caused suggested itself.

Like an inspiration came the thought, "Why not make use of the wire door? A real blessing in summer for keeping out the flies, why uot change it iuto a storm-door and so convert it into, if not a thing of beauty, a joy for a long time?" Yes, the scheme was possible. We procured enough table oilcloth to cover the door; to this we sewed two strips of wood or small laths. We fastened this frail frame to the door (on the outside, of course) with small brads. The brads need not be closer than twelve or eighteen inches, as the frame can then be easily removed in the spring.

We think now, that cotton sheeting muslin, soaked in linseed oil, or if given one or two coats of paint, would be much cheaper and quite as durable as the oilcloth. However, we are well pleased with our storm-door, and the amount of fuel saved by this arrangement more than overbalances the cost of the oilcloth.

In lieu of sand-bags, oats-bags were made to lay over the crevice between the upper and lower window sashes. They were made as long as the window is wide, and four or five inches in circumference. Muslin of a medium quality was the material used. It is surprising how these precautions, trivial in themselves, add to the comfort of those who occupy houses wherein the ventilation is a little more "airy" than is at all times agreeable.

ELZA RENAN.

SKETCHES FROM CANADA.

Directly in frout of my window, as I write, is a conical-shaped little hill, its top ablaze with autumn's coat of many colors. Half way down are a few evergreens, hemlock and spruce, forming a sombre contrast. Just at the foot is a clump of beeches-one blaze of brilliant, yellow glory. No bouquet of hot-house exotics was ever one half so beautiful. No artist can ever hope to rival this picture, for it was designed and executed by the Artist whose works are unapproachable.

At my right hand rises a mountain thousands of feet above sea level, its sides also gorgeous with varied tints of yellow, red and brown, its top one bare and frowning mass of rock. Little, thread-like strips of clearing stretch themselves upward on its side, in ambitious but fruitless attempts to reach the top. Between me and it is a wide, fertile valley of cultivated land, thickly dotted with prosperouslooking homesteads, and sprinkled over with herds of grazing cattle. The little brook that tumbles in surprising leaps off the mountain, furuishes water for the engine of the mill in the distance, surrounded with great heaps of peeled logs. Behind me rises Spruce hill, a sheer ascent of bald rocks, their only covering a network of roots, which reach from the heavily-wooded crest to the earth beneath, in search of sustenance. Away in the distance can be seen many peaks and tops of a range to the east of us.

But we dwellers in the country know that despite these hills there is plenty of laud as fruitful as any that ever "laid out doors," and of beauty and picturesqueness unsurpassed. Sometimes the mist and rain comes driving down the hills, shutting out all the view, and bringing us such a feeling of solitude and unutterable content, alone in our little nest of a home. Sometimes the winds roar and howl around the hills, never hitting very hard in these sheltered nooks. Sometimes every little twig and blade of glass glistens like nature's own diamonds in the morning sun, loaded with a weight of dew that bend their tips groundward.

Once in awhile Jack Frost asserts his claim to the country, and proves it to every one's satisfaction, by hanging his icicle badges on all the little cascades. along the caves and from the end of every bush and shrub. When winter shakes her

powder thickly in the air, the children rejoice and say the women are picking geese in Scotland and letting the wind drift the feathers to us. Hurrah, then, for carnivals on every hillside and frozen water surface; for shout and joke, as long strings of logging teams come in sight, loaded with piled-up logs. Every one turns out, with all sorts of carriages on runners, from the faucy sleigh with the screen in front to keep the balls of snow from the horses' feet from making too intimate acquaintance with your cranium, to the bob-sleds and "pungs," all bearing their allotment of people alive and aglow to their finger ends with health and vigor. Pure air and good water everywhere.

If we could manage not to think that we must have a piano because our neighbor has an organ, or a beaver coat because he has one of coonskin, and live simply and unostentatiously as our means permit, enjoying to the full the beautiful scenery and healthy climate God has given us, when such an epidemic of good sense breaks out, we will not need to search further for pleasant and comfortable homes, but just settle happily down to live and die where we were born-in Canada. F. H.

THE SLATE ON THE KITCHEN WALL.

"What is the big slate for that hangs upon your kitchen wall?" said a visitor to a young housewife the other day. "Oh, that's my memoraudum book," was the reply. "When I first began to keep house out in this suburban spot, we would frequently sit down to a meal and discover there was no pepper in the pepper-caster, or vinegar in the cruet, or only one quarter of a loaf of bread in the box, or some little thing like that, which had slipped my memory among the number of more important things I had to think of-by themselves of little account, but just big enough to take the completeness away from a good meal which it ueeds to be thoroughly enjoyed.

"As our grocer, and baker, and butcher, you see, are all two or three miles away, one cannot tell the girl to clap on her hat, run out and supply the want, as you can who live in the city; so I told John I must have a memorandum book for the kitchen, to jot these wants down in, so that when I did go shopping, or when the tradesmen did call, I would be sure to tell them of everything I wanted.

"The very next day the dear boy brought me home a lovely little book with ivory covers, silver-tipped pencil and celluloid leaves, from which the writing could be erased after the book was full. I tried it for a week, but it was so pretty that if 1 were baking pies, say, and observed that the cloves were almost gone, I would have to stop and wash the paste from my hands before I could handle that pretty book. Consequently, I used to say, 'Oh, I'll not stop now. I'll just remember that and put it down when I have some others to go with it.' Of course, I forgot all about the cloves until the next time I went to get some and found not half enough. So I relegated the pretty book to the recesses of my bureau drawer and bought a common school slate with a pencil and a sponge attached to it by strings. Whenever I find anything running low in the larder, I jot it down on the slate, one half of one side of which is reserved for the grocer, and the rest for the butcher, the baker, etc. If I'm not in the kitchen when they come, Bridget shows them the slate and they copy down the orders. Then, on the other side of the slate I write instructions for Bridget to follow when I go out, or the page and number in the cook book of the recipe by which I want her to cook certain dishes while I am away. Altogether, I find it exceedingly useful and handy, and would advise all young housekeepers to try it."

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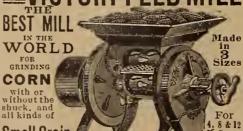
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Best Fences and Gates for all purposes. Free Catalogue giving full particulars and prices. Ask Hardware Dealers, or write THE SEDGWICK BROS. CO. RICHMOND, IND.

Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several

Our Sunday Afternoon.

SHEARS THE SHEEP.

took up one collection for the heathen in Cathay, Another for the naked kids in Siam far away

They passed around the plate again to pay the sexton's bill,

Another round-no money came-the church was very still.

"Why pay ye not?" the Parson said-his voice was stern and deep-

"The Lord would be no shepherd if he did not shear his sheep!"

THE BURDEN OF BIG HOUSES.

n ideal of earthly comfort, so common that every reader must have seen it, is to get a house so big that it is burdensome to maintain, and fill it up so full of jimcracks that it is a constant occupation to keep it in order. Then, when the expense of living in it is so great that you cannot atford to go away and rest from the burden of it, the situation is complete, and boarding houses and cemeteries begin to yawn for you. How many Americans, do you suppose, out of the droves that flock annually to Europe, are running away from oppressive houses? When nature undertakes to provide a house, it fits the occupant. Animals who build by instinct build only what they need; but man's building instinct, if it gets a chance to spread itself at all, is boundless, just as all his instincts are. For it is man's peculiarity that nature has filled him with impulses to do things, and left it to his discretion when to stop. She never tells him when he has finished. And perhaps we ought not to be surprised that in so many cases it happens that he doesn't know, but just goes ahead as long as the materials last.

If another man tries to oppress him, he understands that, and is ready to fight to the death and sacrifice all he has, rather than submit, but the tyranny of things is so subtle, so gradual in its approach, and comes so masked with seeming benefits, that it has him hopelessly bound before he suspects his fetters .-- Scribner's Magazine.

A MOTHER'S HEART.

We ought to watch closely the character of the memories we leave in our homes. One person has left this testimony: "Many a night, as I remember lying quietly in the little upper chamber before sleep came on, there would be a gentle footstep on the stair, the door would noiselessly open and the well-known form softly gliding through the darkness, would appear at my bedside. First there would be a few pleasant inquiries of affection, which gradually deepened into words of counsel. Then, kneeling, her head close to mine, her most earnest hopes and desires would flow forth in prayer. Her tears bespoke the earnestness of her desire. I seem to feel them yet where sometimes they fell on my face. The prayers often passed out of thought in slumber, and came not to mind again for years, but they were not lost." Is it not worth while for every mother to try to weave such memories into the early years of her children's lives?-Western Christian Advocate.

IDLENESS A WASTE.

Able-bodied idleness is a shame. It produces nothing and lives on the labor of others. It slights opportunities and wastes the patrimony of life. It lacks good sense and disregards any reward. Indeed, compensation is no part of phi-

An active life is a very different thing, the prime motor of which is industry, labor and thrift. It involves health, wealth and pleasure; and hence, reveals the true philosophy of life. More than this, it is the heroic element in nature that levels forests, opens up fruitful fields, builds towns and cities and sounds the busy hum of industry and active labor through the land, and thus makes a nation grow strong and great .- The National View.

A Good Reputation.

"Brown's Bronchial Troches" have been hefore the public many years, and are everywhere acknowledged to he the best remedy for all throat troubles. They quickly relieve Coughs, Sore Throat and Bronchial Affections. Price, 25 cents. For sale everywhere, and only

SOW THE SEED.

Brethren and sisters, sow the seed. Don't let your good religious literature go to waste; scatter the truth broadcast. "In the morning sow thy seed, and in the evening withhold not thine hand, for thou knowest not whether shall prosper this or that, or whether they both shall be good alike." Eccl. 11. 6. The time for us all to be up and doing is the present, and God will hold us responsible if we withhold the light. Let it shine; tell of Jesus' second coming, for he said (John 14: 2, 3), "In my father's house are many mansions; if it were not so I would have told you. I go to prepare a place for you, and if I go to prepare a place for you, I will come again and receive you unto myself, that where I am there you may be also."

We can all be preachers; for it is not by might nor by power, but by my spirit, saith the Lord of hosts. Eccl. 4: 6. Praise the Lord. We find in John 7: 37, "If any man thirst, let him come unto me and drink." Oh, how sweet to abide in Jesus and honor him by believing his word, that we may be ready to meet him when he comes; for he will come to receive his people unto himself. Scatter the truth. -Pacific Advocate.

REST.

In the rush and hurry of modern life rest is the one thing that women imperatively need. The demands upon them are so incessant and so varied that they require nerves braced and steadied by sufficient intervals of absolute relaxation to meet them aright. This tonic influence cannot be secured in any other way as well as by a sufficient quantity of sleep.

We have all joked about "Tired Nature's sweet restorer-balmy sleep," but it is an undeniable fact that most women do not get half enough of it to keep them in a proper condition mentally or physically.

The result is that they bring to their work a tired brain, aching limbs and too often an irritable temper. The duties which should be a pleasure seem an intolerable burden. The demon of hurry, who is as different a personage from his half brother-speed-as daylight is from dark, pursues them, and once in his net they may bid good-by to peace and quietness unless they resolutely break away.

There is one plan by which this may be accomplished. To look the matter fairly in the face, and resolve not to do so many things-to do a few better.-Ladies' Home Journal.

"BRIGHTING ALL IT CAN."

The day had been dark and gloomy, when suddenly, toward night, the clouds broke, and the sun's rays streamed through, shedding a flood of golden light upon the whole country.

A sweet voice at the window called out in joyful tones, "Look! Oh, look papa! The sun's brighting all it can."

"Brighting all it can? So it is," answered papa. "And you can be like the sun if you choose."

"How, papa? Tell me how."

"By looking happy and smiling on us all day, and never letting any tearful rain come into the blue of those eyes; only be happy and good, that is all."

The next day the music of the child's voice filled our ears from sunrise to dark; the little heart seemed full of light and love, and when asked why she was so happy, the answer came laughingly: "Why, don't you see, papa, I'm the sun? I'm brighting all I can!"

"And filling the house with sunshine and joy," answered papa.

Cannot little children be like the sun every day, "brighting" all they can? Try it children.—S. S. Messenger.

ABUNDANT RECOMPENSE.

The long rest and incomparable splendors of our heavenly inheritance-when the saints shall appear kings and opriests unto God, and shall shine as the sun in the kingdom of their father-will be abundant recompense for the witnessing and warring of this life. The witnessing and the warrings are for a day, the kingship will be forever. The one is well termed "light affliction," "for a moment," and the other "weight of glory," and "eternal." Children of the kingdom, spring to it; the time is short, and the glory is close at hand. You will be called to the marriage supper of the Lamb before you are aware of it. Have your lamps trimmed and brightly burning .- Christian Witness.



The Pittsburgh Lamp is one of those inventions that seems to be finished. It seems to reach the end as to goodness of light in every way, and ease of management. The only care it requires is filling and wip-

Dirt falls out when the chimney is taken off, not into a pocket as in other central-draught lamps.

Putting in a new wick is a very easy matter indeed.

All this seems strange to one who knows how troublesome other good lamps are.

It is in all the good lamp-stores. Send for a primer.

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Save Your Horse.

The stable protects your horse from wind but not from cold. When a horse is at work in the day time he is kept warm by exercise, but when sleeping his blood becomes sluggish, and he needs a blanket. Many valuable horses become decrepit, rheumatic and diseased, and many die every year for want of a blanket in the stable. Proper care of a horse during the Fall and Winter requires that he be blanketed, not only out of doors, but also in the stable at night. A 5/A Horse Blanket in the stable will save you feed, will keep your horse in good condition, and may save your horse.

condition, and may save your noise.

5/A Horse Blankets are made by Wm. Ayres & Sons, Philadelphia, and are for sale by all dealers. If you can not get them from your dealer write them. There are Thirty Styles at prices to suit all. Among them are the 5/A Five Mile, with five miles of warp threads in each hlanket. 5/A Boss Stable, a glant for strength. 5/A Extra Test which stands the highest test for strength. Also the celebrated 5A Baker which is used by rallroad, express and fire companies in all the large cities. These are shown in the 5/A Book, which you can get free from your dealer. Ask for it.







LADIES have great success selling this Washer. Retail price only \$5. Sample to those desiring an agency \$2. Also the Celebrated KEYSTONE WBINGERS at manufacturers' lowest prices. We invite the strictest lavestigation. Send your address on a postal card for further particulars. LOVELL WASHER CO.101 Huron St.ERIE,PA.
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A Family Knitting Machine for Only \$5.00.



Will ship the machine by express C.O.D., You can pay the balance 83.00 on receipt of machine. I will ship the machine and a prostal note or currency, I will ship the machine secure agents at once; if you will ship the machine and secure agents at once; if you will salve the machine secure agents at once; if you will salve the machine secure agents at once; if you will salve the machine and secure agents at once; if you will salve the machine to you will salve the machine and secure agents at once; if you will salve the machine by express C.O.D., You can pay the balance 83.00 on receipt of machine. I will then appoint you agent and allow you a large commission. You can clear \$200 a month. Don't miss this maparalleled offer, as a practical knitting machine has never before been sold at this low wire.

Address J. F. Shi All Hard. Clear that the wire and the salve will be a sever before been sold at this low wire.

Address J. E. GEARHART, Olearfield, Pa

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We consider it the **Drudgery of Life**lady agents are making from \$25. to
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Queries.

Qnestions from regular subscribers of FARM AND FIRESIDE, and relating to matters of general interest, will be answered in these columns free of charge. Querists desiring immediate replies, or asking information upon matters of personal interest only, should enclose stamps for return postage. The full name and post-office address of the inquirer should accompany each query, in order that we may answer by mail if necessary. Queries must be received at least two weeks before the date of the issne in which the answer is expected. Queries should not be written on paper containing matters of business, and should be written on one side of the paper only.

Books on Electricity Wanted.—H. A. M., Prairie City, Illinois. D. Van Nostrand Co., New York, can supply you with books on

Spring Wheat Wanted.—V. M. T., Social Hill, Ark. You can get seed spring wheat of nearly every northern seedsman who advertises in our columns.

Jersey Cattle Wanted.—J. R. R., Capitola, Md. You will find numerous advertisements of thoroughbred Jersey cattle for sale, in the Jersey Bulletin, Indianapolis, Ind.

Organizing Alliance.—T. H. H., Elyria, Ohio. W. H. Likens, Caledonia, Ohio, is the president of the Ohio State Farmer's Alliance, and he will give you full information about the order, on application.

Haverland Strawberry.—J. S. D., Brighton, Colo., asks where plants can be had. Our inquirer should keep watch of the advertising columns of FARM AND FIRESIDE, and in due season he will find plenty of addresses of dealers in strawberry plants.

Cotton-Seed Meal Wanted.—W. C. M., Prattsville, N. Y., asks: "Does any reader know where cotton-seed meal can be bought direct from the producer? We have to buy now from the 'miller's agents' in Boston. We don't know what the producer gets, but we pay \$26 per ton here."

Best Barley for Kansas.—J. L., Louisburg, Kan. Probably your state agricultural experiment station at Manhattan, Kansas, can inform you what is the best variety of barley for your state. Spring barley should be sown at the same time and in the same way that you sow oats. About two bushels per acre is the quantity of seed usually sown.

Wire-Worms on Celery.—C. M. Z., writes:
"Will wire-worms work on celery that is
planted in muck? The piece of land I intended to plant is full of wire-worms."
REPLY BY JOSEPH:—They are very likely to
work on the celery stalks. Try applications
of salt, before banking, heavy enough to make
the ground near the plants white. The worms
work after the plants are earthed up.

Salt for Onions on Marsh Ground.—L. H. M., Alger, Ohio, wishes to know whether it would be advisable to use salt for onions on marsh ground, and how much per acre. REPLY BY JOSEPH.—The agricultural salt can usually be bought for a few dollars a ton, and I would not hesitate to apply one hundred pounds or more per acre for onions, especially on marsh land. It can do no harm and probably will do good.

obyster-Shell Lime.—W. H. R., Fairview, Pa., asks about the value of oyster-shell lime for fertilizing purposes. Strictly speaking, it has none, or next to none, except in the rare cases where the soil is destitute of the lime needed for plant growth. For the purpose of unlocking plant foods already in the soil in insoluble combinations, it has about the same value as other lime, and the price of this is regulated by local conditions, no uniform standard being recognized.

Alfalfa for Seed—Weed Extermination.

standard being recognized.

Alfalfa for Seed—Weed Extermination.

—Mrs. A. M. W., Millville, Pa., writes: "What crop of alfalfa should be left to ripen for seed?

—What will kill the so-called wild lobelia?" I have cut it off deep with a knife, but it soon sprouts again."

REPLY BY JOSEPH:—Treat alfalfa as yon would ordinary clover, cutting first crop for hay.—Obstinate perennial weeds may be killed hy cutting off below surface of ground. and putting a drop or two of sulphuric acid (oil of vitroil), or a teaspoonful of kerosene upout the root.

Pruning Trees—I R G Brownsyille.

Pruning Trees.—J. R. G., Brownsville, Tenn., asks: "How and when should trees be pruned?"

REPLY BY JOSEPH:—Plum and peach trees may have about one third of the new growth cut back, which job can be done on mild days during winter. Our best authorities object to pruning plums in spring, and many do not prune them at all. I think this cutting back is a good precaution against overbearing and the consequent breaking down of limbs. With apples and pears the most that is needed is to cut out the straight, whip-like shoots that grow along the larger limbs inside the trees, and to remove branches where crowded, dying or diseased. This may be done at any time when most convenient.

Celery Culture.—Mrs. E. T. North Yar-

Celery Culture.—Mrs. E. T., North Yarmouth, Mass., writes: "I would like to learn something about raising celery—kind of soil, seed, when to sow, etc.

REPLY BY JOSEPH:—Try White Plume, which is easiest to raise, as it needs next to no earthing up. Sow seed as early in spring as a

earthing up. Sow seed as early in spring as a fine, very rich seed bed can be prepared. Sow in rows a foot apart, firm soil well, keep free from weeds; thin plants to twenty-five to the foot. Transplant last of June or beginning of July in specially-prepared, well-manured rows, these to be three feet apart, and the plants six inches apart in the row. Hoe well, and when the plants are a foot or so high, bank earth around their base to keep them growing upright and compact.

Removing Stumps—Leaky Vat—Water-proof Cloth.—W. H. D., East Bethany, N. Y., writes: "What is the easiest and cheapest way of getting rid of stumps?——I have a square sap vat that leaks. What shall I calk it with?——Is there any way of making cotton cloth waterproof?"

it with?—Is there any way of making cotton cloth waterproof?"

REPLY:—Sometimes it is cheaper and better to use a good stump machine; at others, blasting cartridges. If the stumps are old and not too large, a pair of horses, hitched to the end of a long, strong lever, attached to the stump with a heavy chain, can twist them out.—If the vat is used only for holding sap, the cracks can be caiked with hemp twine and white lead or hydraulic cement.—Stretch the cloth on a wall and apply with a brush a mixture of five parts of bolled linseed oil and four parts of ground litharge.

ground litharge.

Fertilizer for Potatoes.—K. L., Marena, Iowa, asks: "What is the best fertilizer for potatoes, and where can I get it?"

REPLY BY JOSEPH:—The "best" fertilizer is the one composed of just the plant foods, and these in just the proportion needed for the crop under each particular soil conditions. Plain superphosphate will be best in all cases where the soil has enough available nitrogen and potash, but is scantily supplied with phosphoric acid, as is the case on many grain farms. Ashes may be best in other cases, or a

complete fertilizer, such as the "special potato manures" made by leading manufacturers, in others. Where people know little about the needs and conditious of their soil, a special potato manure, composed of about 3 to 4 per cent nitrogen, 8 to 12 phosphoric acid, and 6 to 10 potash, and sold by leading fertilizer men at about \$40 to \$45 a ton, is certainly safest to use. The brands made by Mapes, Bowker Fertilizing Co., Lister Bros., Williams & Clark's Co., Poweli, Crocker (Buffalo, N. Y.), and many other firms are reliable.

VETERINARY.

**Conducted by Dr. H. J. Detmers. Veterinarian of the Ohio Agricultural Experiment Station, and Professor of Veterinary Surgery in Ohio State University.

To regular subscribers of FARM AND FIRESIDE, answers will be given through these columns free of charge. Where an immediate reply by mail is desired, the applicant should enclose a fee of one dollar, otherwise no attention will be paid to such a request Inquiries should always contain the writer's full address. Queries must be received at least two weeks before the date of the issue in which the answer is expected. Subscribers may send their veterinary queries directly to De. H. J. Detmers, 35 King Avenue, Columbus, Ohio.

Kneesprung.—J. W. S., Peach Orchard, Ky. Slight improvement and a little more steadiness may be effected by judicious shoeing. There is no cure.

Lame Pig.—G. H. B.. Buchwalter, Pa. It does not pay to raise a crippled pig for breeding. The best advice I can give you is to bntcher the pig. It is trne, it is a boar pig, but it is yet young, and at any rate, will make good sausage meat. It may he advisable, though, to examine its meat for trichinae before psing it. fore using it.

Abscess.—J. C., Cloverdale, Ind. Such an abscess, particularly in a place where pus is apt to burrow down between the muscles, requires careful treatment; the opening, too, must be made at the proper place, otherwise the animal may be crippled for life. I therefore have to advise you to entrust the treatment to a veterinarian. It surely will pay you to do so.

Garget,—D. C. R., Two Taverns, Pa., and W. A., Fairmount, Neb. The remedy cousists in milking, milking, milking, once every two hours, until all "corruption" has been removed and the milk has become normal again. For further information I refer you to the answers given to the numerous inquiries headed "garget" in recent numbers of this paper.

Cntaneous Eruption.—J. S. D., Howard, Minn. The entaneous eruption from which your cattle suffer may be ringworm. If so, you may repeatedly paint the spots with tincture of iodine, say once every day, until they disappear. Applications of carbolic acid, dissolved in water, will also remove them. Internal medicines are of no use, but cleanliness in the stable is.

Incontinence of Urine.—T. G. R.,——. Incontinence of urine may be due to partial paralysis of the sphincter of the bladder, but also, and more frequently, to the presence of a stone or of so-called gravel in the bladder. Hence, to ascertain the cause, an examination is required. The treatment consists in removing the cause, which is possible if a stone, or so-called gravel, constitutes the same. But to do it requires an operation which can be performed only by a competent veterinarian.

formed only by a competent veterinarian.

Colic.—T. O. R., Queen City, Mo. Your mare, it seems, suffers from repeated slight attacks of colic. Feed and water as regularly as you can; do not work the animal immediately after a meal, but give time—at least an hour—to inaugurate digestion before you hitch up, and do not feed heavy food immediately after exercise, but give the animal sufficient time to cool off and quiet down before feeding. More you cannot do. Animals which are frequently afflicted with colic will, as a rule, finally die of it.

Incipient Elephantiasis.—E. F..Lompoc, Cal., writes: "I have a yearling colt that has a hig leg, supposed by some to be caused from the effects of distemper, and by others from a snake bite. The leg is about twice as large as it should be. The swelling is from the ankle up to the hock."

ANSWER:—Try handaging with elastic (woolen flannel) baudages, and keep the swollen leg clean. For further information I have to refer you to the already numerous answers to questions similar and identical to yours.

Bog-Spavin.—W. S. S., Galesburg, Mo. The swelling you complain of appears to be a so-called bog-spavin. It probably will get smaller when the animal gets dry and substantial food. If not, you may apply either gentle pressure, by means of elastic (woolen flannel) bandages or some iodiue preparation (tincture of iodine, for instance). Still, such "puffs" are frequently very obstinate, and if they do yield to treatment, they usually return at the least provocation; for instance, a slightly severe exercise, etc. They do not cause any lameness.

Narts.—C. A. H., Milan, Kan. You say, "Neck and shoulders are covered with warts." If you are sure yon have to deal with warts, and not with ringworms, a frequent disease in calves, you can remove them, if they have a neck, by means of a ligature, and if flat, by means of caustics. Nitric acid, repeatedly applied by means of a small piece of "surgeon's" sponge fastened to the end of a stick, will answer. Care must be taken to apply it to nothing but the wart. For further information I have to refer you to the answers given to similar questions in almost every number of this paper. of this paper.

of this paper.

Vertigo.—W. H. R., Catawissa, Pa., writes:

"I have a horse that is in good condition and looks well, but there seems to be something wrong with him. After he is hitched up and driven till he begins to get warm, at times he will throw up his head and shake around; sometimes he will nearly raise from the ground. In a few minutes it is all over. He acts that way mostly when hitched singly, more than in a double team. He shakes his head as if there were flies or something in his ears."

Answer:—It is possible that your horse suffers from slight attacks of vertigo. See to it that the harness fits well in every respect, and does not compress large blood vessels. Pay special attention to the collar, and do not use short check-reins and tight throat-latches.

use short check-reins and tight throat-latches.

Swine-Plague.—P. L.. Forest City, Neb., writes: "I have many pigs which are dying very fast, though they are perfectly fat. My neighbors teli me that they have the hog measles. They gct lame, seem to draw up, have good appetites and their feet are very hot. Their hearts beat very quick and fast and they break out in sores."

Answer:—Your pigs seem to be affected with swine-plague, so-cailed hog-choiera. If they are not too young, you may succeed in saving those not yet diseased by immediately separating them from the sick ones, and taking them to a high and dry and uninfected place, where, of course, they have to be kept

ANDRAL-BROCA DISCON



Catarrh, Bronchitis, Asthma and all Diseases of the Respiratory Organs.

In Europe the wonderful cores of Consumution and kindred diseases by the New ANDRAL-BROCA DISCOVERY are exciting the medical world. Endorsed by the Public Hospitals, and by 4300 attested cures of Consumption in 90 days. Consumptive death-rate at once reduced from 85 per cent. to less than 15 per cent., and Catarrh, Bronchitis, and Asthma quickly and certainly cured.

and Asthma quickly and certainly cured.

Not a Drug-Not a Specific-but a New Scientific Common-Sense Method of Home Treatment-Plain, Simple and Practical.

The Greatest Discovery in Modern Medicine. A certain and absolute cure. In three months more than ten thousand persons have realized its hlessings. To prove the certain success of this New Method of Treatment, it is determined to furnish a 1en days' free trial of it to every sufferer. Remember, no charge whatever is made for this trial. You are simply asked to take it FREE, and try it for yourself. If, therefore, you days' FREE treatment. It may save your life. Give your name, address, express office, age, and full particulars of your disease, and you will receive FREE, the treatment suited to your case, with its full diagnosis, and a large illustrated 100-page book, THE NEW MEDICAL ADVANCE, which fully describes this great discovery. Please mention this paper. Address THE NEW MEDICAL ADVANCE, 62 East Fourth Street. CINCINNATI, OHIO.

THE NEW MEDICAL ADVANCE, 62 East Fourth Street, CINCINNATI, OHIO. Over a year ago our newspapers first noticed this wonderful discovery. The Christian Index Dec. 22, says this mode of treatment is the result of the best thought of the medical profession o Europe, where its success is assured. The Medical Journal says it is the most important discovery in the history of medicine. The New York Voice, Dec. 8, The Christian Advocate and The Express state that the medical journals of Europe have been teeming with the wonderful cures the Andral-Broca Discovery is performing in the Hospitals of Berlin, Milan, Vienna and London.

in strict seclusion until all danger of an infection has passed.

Sores on Pigs.—J. W., Harmarville, Pa., writes: "I have a sow with five young pigs about a month old, her first litter. When two weeks old, one got a sore on its shoulder, then another one got a sore on its leg, theu their eyes began to swell. Two of them, each had an eye swell and burst. They are fat and plump, and sleep nearly all the tlme. They have a good, warm and clean pen."

ANSWER:—Apply to the sores twice or three times a day a five-per-cent solution of carbolic acid. For the eyes, provided the eyesight is not yet irrevocably destroyed, you may use an eye-water composed of corrosive sublimate, one part, to distilled water, one thousand five hundred parts. If the eye is already destroyed, the five-per-cent solution of carbolic acid will answer. answer.

Chronic Intestinal Catarrh.—S. B., Black Diamond, Cal., writes: "My horse is continually soiled behind by stains running down the legs. He is in apparently good health, with but little to do except an occasional pleasure drive. Can yon advise what is best to do to prevent it? His bowels are apparently in good condition."

ANSWER:—In the first place, change the feed, and by way of medicines, some tonic, for instance, small doses of gentiana or even of nux vomica may be given. The doses of the latter, if given in powder form, is half a drachm, and that of the former about an ounce. The change of food ls, however, the main part; but even that remains often ineffective, especially in old horses. Injections of starch into the rectum also may be tried.

Malignant Wart.—C. S., Netawaka, Kan.,

especially in old horses. Injections of starch into the rectum also may be tried.

Malignant Wart.—C. S., Netawaka, Kan., writes: "I have a three-year-old mare that has a large wart on her foot. It is as large as a walnut. It is situated on the elastic frog, or just back of the upper part of the hoof and on the outside of the foot. It is soft and a bloodyfleshy composition. I think it has been there nearly a year and is slowly growing. I have never treated it at all, thinking it would leave. Several times she has broken it off and it has grown out again. It is beginning to lame her a little. Aside from the wart, the mare is thrifty and doing well."

Answer:—Such a malignant wart frequently proves to be an ugly thing. If nitric acid, applied by means of a piece of a surgeon's sponge, fastened to the end of a stick, should not permanently remove it, arsenious acid in the following combination, and properly applied, will: Take two parts of arsenious acid, one part of caustic potash, two parts of powdered gum arabic (genuine) and four parts of water. This, well mixed, will make a thick paste, and one application is usually sufficient. But I have to ask you to have it applied by a veterinarian, or, at any rate, by somebody who is competent to apply such exceedingly dangerous and poisonous substances, because, if not properly applied, your animal will be ruined, and may die.

An Affection of the Respiratory Passages—A Weak Colt.—J. N., North Dorr,

properly applied, your animal will be ruined, and may die.

An Affection of the Respiratory Passages—A Weak Colt.—J. N., North Dorr, Mich., writes: "My driving mare has something the matter with her throat or head. Every time I drive her she seems to take cold and has difficulty in breathing. Then when I drive her again, she will keep coughing till something breaks loose in her throat or head and causes a rattling sound. Then she seems to be all right again for a few days.—I have also a fine colt that was a year old in September last. When he came, he was weak in his front legs and couid not stand on them. His front legs are all right now, but he is weak in the hind pastern joints. When he stands in the stable! he seems to be all right, but when he walks around, those joints seem to shove out in front, and when he steps, those joints will snap back in their places. His hind legs seem to be a little weak."

Answer:—Your mare suffers from some affection of the respiratory passages. What it is, I cannot tell you, because to ascertain the nature of the affectiou—perhaps some kind of obstruction—requires an examination of the animal.—As to your colt, nutritious food, a perfectly level floor in its stable, and judicious bandaging will effect improvement. Whether a cure can be effected, depends upon the degree of weakness and the peculiarlies of the case.

Walks on His Toes.—G. S. M., Boonsboro,

Walks on His Toes.—G. S. M., Boonsboro, Va., writes: "I have a three-year-old horse that has an affection of the hind legs and feet which puzzies me. He walks on his toes, especially up hill; stands ou his hind toes in the stable, and in walking has a peculiar, outward twist of the hind legs, as if he revolved them on the toes. It seems as if there was a stiffness of the coronet joint, or it may be a luxation of the extensor muscles, or a contraction of the fiexors.

ANSWER:—The trouble, as you seem to know yourself, is probably not in the flexor muscles and tendons, but in the extensors. But whether it is more weakness, paralysis or a rupture of onc of the extensors or its tendon, that to decide would require an examination, especially if one does not know the history of the case. I therefore have to advise you to

have the animal examined by a competent veterinarian. If you are not too far from Blacksburg, you may consult Prof. Ellis, of the A. and M. college.

Blacksburg, you may consult Prof. Ellis, of the A. and M. college.

Worm Disease in Sheep.—C. P. T., South Royalton, Vt., writes: "About a year ago I wrote about my sheep, that the lambs scoured badly, had a cough, lost flesh and appetite and finally died. I lost seventeen of my hest ones and some old sheep, also my best. Your reply was that it was parasites in lung, stomach or liver. This same trouble is among my flock, but not as bad as a year ago. Several of my lambs passed short, flat worms, which looked like strips of white membrane. They gannt np, bowels are loose, eyes dull, appetite poor. Some old sheep are affected by it, but not as badly as the lambs; they still cough oecasionally. These sheep and lambs had good, sweet pasturage (quite a large timber lot attached through which they ranged), the best of fall feed, and since that failed, plenty of hright, early-cut hay and rowen with grain and roots once a day to the stock sheep, and grain twice a day to fattening lambs. It does not seem to be contaglous; no one here has ever heard of snch trouble. As I have lost several registered Southdowns, and have more affected, I am naturally anxious for a remedy. I opened several that died last fall, hut could find nothing to indicate cause of death. Last spring when sheep affected by this distemper, even slightly, the lambs would die when three or four days old. Is there a remedy and what is it?"

Answer:—Besides long worms, your sheep also seem to have tape-worms. Against the

ANSWER:—Besides long worms, your sheep also seem to have tape-worms. Against the former not much can he doue. The latter will yleld to treatment. Dissolve one part of tartar emetic in forty-eight parts of distilled water, and give each lamb one ounce and each sheep a little more—up to an ounce and a half—of that solution on an empty stomach, and then don't give any food during the next fonr or five hours. Keep your sheep, but particularly the lambs, away from all, wet and swampy places, and especially from stagnant pools of water.

A sore Foot.—E. E. E. Bedding Jowa

ularly the lambs, away from all wet and swampy places, and especially from stagnant pools of water.

A Sore Foot.—E. E. E., Redding, Iowa, writes: "My three-year-old filly got a scratch on the front foot, just above the hoof on the back part. We supposed that she got it hooked over the harb-wire, as one of the wires was broken. It was not much of a scratch, but it gathered around to the front part of the foot, and mattered clear around from behiud to the front ou one side. That foot is nearly twice as large as the other one."

Answer:—Your description leaves me in doubt whether you have to do with a fistula in the cartilage of the hoof, or simply with a case of grease-heel. It probably is the former. Make a careful examination, and asceriain by careful probing with a flexible (whalebone) probe, whether and where a canal is leading into the interior of the foot. If such is the case, you have to deal with a cartilage fistula, a disease, the treatment of which requires the attention of a competent veterinarian. There are several methods. I have had the best success with the following: First, I prepare corrosive sublimate bougies by mixing one part of finely-powdered corrosive sublimate with one part of gum arabic and two or three parts of water. This makes a semi-fluid paste. I then take twine about one eighth of an inch in diameter, dip it into my paste, which latter may be kept in a test tube, and let it dry. When dry, I dip it in again, and hang it up to dry. This proceedure is repeated until my twine is uniformly coated, of sufficient thickness and comparatively stiff. I then cut it into ends of sultable length—say about a quarter of an inch longer than the depth of the fistulous canal. This done, I introduce such an end (bougie) into the fistulous canal, and then bandage the sore foot. The object of this treatment is to destroy the diseased cartilage, and thus make a cure possible. If one application is not sufficient, a second and perhaps a third one must be made. I advise you, though, if you value your anim

FRIDLEY, MINN., Nov. 17, 1890.

I received the pictures, "Christ Before Pilate" and "Christ on Calvary," and would not part with them for One Hundred Dollars.

Mrs. A. HINDLE.

MOORESBURG, PA., Nov. 27, 1890. I received the picture, "Christ on Calvary," and am well pleased with it. "Christ on Calvary" is the grandest picture of the kind I have MRS. MARY A. CROSLEY. ever seen.

SALT LAKE CITY, UTAH, Nov. 12, 1890. I thank you for the plcture, "Christ on Calvary." I think it truly magnificent, and with the former one (I received "Christ Before Pilate"), will make a heatiful pair, nicely framed. The work is splendid. The Stamplug Outfit also reached me, for which accept my MRS. J. B. HAWKINS.

Our Miscellany.

THERE are 105,000,000 sheep In Australia.

AMERICAN coal is to be introduced into

BEECHAM'S PILLS act like magic on a Weak Stomach.

Last year the government sold 13,000,000 acres of land to settlers.

Pour all the dish-water and soap-suds on the roots of young trees.

LEATHER chair seats may be cleaned by rubblng with white of egg, well heaten.

IT will require 58,000 freight-cars to move the stock of wheat in the Red River valley.

A GRAIN of musk will scent a room for twenty years, and at the end of that time will uot show that it has diminished in the least.

Forty thousand miles of railroad have been projected and surveyed and capital subscribed to build in this country during the next two years, but less than half that mileage will be constructed.

Oil may be taken out of any carpet or woolen stuff by applying buckwheat plentifully, and carefully brushing it offafter a short time, and putting on fresh until all the oil has disappeared.

An Egyptian scythe, recently unearthed, is exhibited among the autiquitles In the private museum of Flinders Petrie, in London. The shaft of the Instrument is wood, supporting a row of filnt saws, which are securely cemented

'INK stains can be entirely removed by the immediate application of dry salt, hefore the ink has dried. When the salt becomes discolored by absorbing the ink, brush it off and apply more, wettling it slightly. Continue this until the iuk is all removed.

THE surface of the sea is alive with vast swarms of minute organisms, both plants and animals, and the "Challenger" investigations have shown conclusively that showers of these keep dropping, day and uight, like a constant rain, toward the ooze of the bottom.

"SPEAKING of brave men," said Colonel Blue-grass, of Kentucky, "there is Colonel Blood, of our town. He's the bravest man I know." "Indeed?" "Yes, sah! Why, sah, the doctor prescribed a glass of water before breakfast every morning, and, sah, the Colonel is taking It without a kick."

"Cheap Lands and Homes in Kentucky, Tennessee, Georgia, Alabama, Mississippi and Louislana" ls the Title of a Pamphlet issued by D. G. Edwards, Cincinnatl, Ohio, General Passenger and Ticket Agent Queen & Crescent Ronte, containing correct County map of these States. Malled free on application, to auy address.

In sour paste, the milt of a codfish, or even in water in which vegetables have been infused, the microscope discovers animalculi so small that millions of them would not equal the size of a grain of wheat. And yet nature, with a singular prodigality, has supplied many of these with organs as complete as those of a whale or an elephant.

A COMMON SENSE CALENDAR.

The calendars that come in the fall are as numerous as the flowers that bloom in the spring. Many further resemble the flowers in that they come without being sent for, and fade after a very brief existence.

The most sensible and business-like Calendar that we have seen comes to us from N. W. Ayer & Son, Newspaper Advertising Agents, Philadelphia, and bears their "Keeping everlastingly at it" imprint. It is so large and clear that its dates can be easily distingulshed across an office, and is printed in a manner to reconcile the most fastidious to its company for a

It is sent to any address, postpaid, on receipt

More dangerous than the profession of a soldier in time of war is the work of a freight hrakeman in times of peace. The work is daugerons enough in summer, hnt when the foot-board on top of the freight-car is covered with snow and ice, "braking freight" becomes more hazardous than any other pursuit in the world. The schoolboys welcome the coming of snow and sleet, for to them it means pleasure. To the hrakeman it comes as anything but a hlessing, for it means that it increases the chances of his death fifty per cent. Even the most experienced brakeman cannot always guard against a slip, and few there are, new or old, who have not had narrow escapes from a dreadful death. The marvel is that any brakeman comes back from a run alive, when one considers the awful danger of running along the narrow, ice-covered footboard of a swaying hox-car, with no support for the hands and the wind blowing a gale In the dark ness.

CONSUMPTION CURED.

An old physician, retired from practice, had placed in his hands hy an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and all Throat and Lung Affections, also a positive and radical cure for Nervous Dehility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering, I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. Noyes, S20 Powers' Block, Rochester, N.Y.

THE PERFECT MAN.

The proportions of the human figure are six tlmes the length of the right foot. Whether the form is sleuder or plump, the rule holds good on an average. Any deviation from the rule is a departure from the beauty of proportlou. It is claimed that the Greeks made all their statues according to this rule. The face, from the highest point of the forehead, where the hair begins, to the end of the chin. Is one tenth of the whole stature; the hand, from the wrist to the end of the middle finger, is also one tenth of the total height. From the crown to the nape of the neck is oue twelfth of the stature. If the face, from the roots of the halr to the chin, be divided into three equal parts, the first division determines the place where the eyebrows should meet, the secoud the opening of the nostrils. A man of good proportions is as tall as the distance between the tips of his fingers when both arms are extended to full length .- St. Louis Republic.

A STEER'S MISTAKE.

A Texas steer that got into a panic while being driven through a Kansas town, took after a grocer, but didn't see the man dodge into a doorway. He kept on until he saw a telegraph pole and he made a charge and struck it with such force that his neck, one leg and a shoulder were broken. It is a funny thing that the owner of the steer is suing the grocer for the loss of the animal.—Detroit Free Press.

SOME THINGS A BOY SHOULD LEARN.

To swim. To dance. To throw straight. To make a fire. To be punctual. To hang up his hat. To help his mother or his sister. To wipe his boots on the mat. To close a door quietly. To read aloud when requested. To remove his hat upon eutering a house. To treat the girls so well that they will all wish he was their brother. Either to sing or to play a musical instrument.-New York Ledger.

SAW-MILL FOR PLANTERS AND FARMERS.

Quite a number of years ago there was a very great demand for a saw-mill for farmers' and planters' use, to be driven by their farm engines. The demand for such mills had been small and prices were higher than buyers seemed willing to pay. Appreciating the fact that very many of these mills can be sold, the Lane & Bodley Co., of Cincinnati, designed a mill and advertised same largely at a very low price, resulting in many sales. While this mill is sold at a low price, it is not cheap in any sense, its material and workmanship being of the very best quality and all parts correctly adapted to the work. The reputation of this house has been well established for many years and it is only necessary to mentiou that they continue to manufacture in large quantities these mills, to attract the attention of our readers.

A GREAT SCHEME.

"Do you know that one of the higgest schemes to furnish electric power from water power is soon to be put in operation out our way?" sald the Hon. A. C. Brown, of Minneapolis, when I met him in the Hoffman House last eveniug. The Mississippi river, for a distance of ahout five miles, hetween St. Paul and Minneapolls, is full of rapids, and the land on each side of the river is sultable for the erection of manufactories. The idea is to utilize this water power by huilding a succession of dams in the river-using the water over and over again. This will furnish the power for electric plants that will use the electricity thus produced for street lighting and motor purposes. Henry Villard and several well known eastern capitalists are interested in the movement, and will begin work on the dams as soon as the spring opens. -New York Herald.

VARIOUS ROADS TO FAME.

Authorship is not the only road to fame, nor is politics, writes John Swinton in the New York Sun. One man in this city has perpetuated his name for three generations, and may perpetnate it for many more, by being the founder of a restaurant. Another mau has perpetuated his name by heing the inventor of a printing press; another hy devising a lead pencil; another by starting a town that has grown up; another by coucocting a favorlte drink; another by rearing a hig honse; another by establishing a charitable society; another hy building a theatre; another by accumulating a heavy fortune; another by McAllisterism; another by pugilistic feats; another by carrying on like a crank; another by electrical discoveries; another by raising a flower which he called after himself; another by building up a mercantile establishment; another by designing a stove; another by making a hequest to some institution; another by producing a patent medicine; another by constructing a lock; another by vocal accomplishments, and others in many other ways; but perhaps there is not one author In a hundred who writes a book that gives him a reputation that lasts for a year.

PLATINUM and silver can each be drawn into wire many times smaller than a human hair. The former metal has been drawn into wire so fine that tweuty-seven of them twisted together could have been inserted into the hollow of a hair; that is, if a human being or a human-made machine could he found minute and precise enough for such a delicate

AGRICULTURE IN ANCIENT CHINA.

In 1100 B. C. the prime minister of the Emperor Wou-Weng, Tcheou-Kung, constructed norias, or hydraulic machines of simple design and working, by which water was raised to a height to which it had never been carried before, and made reservoirs and canals for Irrigation. Water was conducted by means of machinery from the wells to the dry hill tops, and water provision was assured for times of drouth. Agriculture, in consequence, flourished. Other measures of Tcheou-Kung comprised the promulgation of laws respecting the boundaries of properties and the prevention of trespasses. The fields were divided into squares called wells, from their resemblance to the Chinese character signifying a well, surrounded and furrowed hy ditches so arranged that eight farmers, each tilling his own tract, united in cultivating the ninth interior tract, which helonged to the state, and the produce of which paid their

The system succeeded to a marvel. Each tenant was proprietor of about fiftceu acres, the whole product of which belonged to him, while the state was really proprietor of the whole, and had, as a laudlord, the iucome of the ninth tract. Besides this, each farmer had some 3,350 square metres of ground for his farm-yard and his mulberry trees. Thus he always enjoyed a surplus of provision, of pork and ponltry for food and silk for clothing. No one at this time was richer or poorer than another, but a complete social equality existed, and every one, they say, was satisfied.— Tcheng Ki Tong, in Popular Science

HORACE GREELEY'S HAM.

After the New York Tribune had moved its offices to Spruce and Nassau streets, in the old building, Mr. Rhoades came down one morning about nine o'clock and saw a big ham lyiug on the iron heater, writes a correspondent. Franklin J. Ottarson, the city editor, came in and said:

"Dave, whose ham is that?"

"I don't know, Ot," was the reply. "I only know that when I came into the office that ham was there."

"Give it to me?" said Ot.

"Nothing of the kind," said Rhoades. "If you want it, come around and get it."

Ottarson promptly went around aud took it. At twelve o'clock Mr. Greeley came around and said:

"Dave, where is my ham?"

"Your ham? Get np to Ottarson's as quick as you can, and probably you will find it in the pot boiling."

"Well, confound yon," said Mr. Greeley, nsing more vigorous language, however. "Why dld you give Ottarson that ham?"

"He took it," was the reply. "Ottarson came down and asked for the ham. I wouldn't give it to him and he took it."

Next day Mr. Greeley said: "Confound you,

Rhoades, you gave Ot that ham." "Nothing of the kind."

"Ot says you did."

"He's not telling the truth."

Shortly afterward Mr. Greeley unhurdened his mind to his associates in words somethlug like these:

"You lot of thieves! I'll have to pin my shirt on my back if I don't want to lose it among you."

BUT WHAT WOULD PARADISE BE WITHOUT HER?

Lady lecturer on woman's rights (growing warm)-Where would man he if it had not heen for womau? (After a pause, and looking around the hall)-I repeat, where would man be if it had not been for woman?

From the gallery-'E'd be in Paradise, ma'am.—The Jester.

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Smiles.

TO ELISE; OR, WHY WE DON'T MARRY.

Your foot is the tiniest that trips, love, Through the maddening maze of the waltz: Two hlossoming buds are your lips, love, Your eyes say your heart is not false.

Your hands are so dainty and white, love, Your figure so wondrously fine, That I'm tempted almost, but uot quite, love,

To say, I adore you !- be mine!

But no! there's a frightening fear, love, That will not allow me to speak. You're spending three thousand a year, -ove; I'm making twelve dollars a week.

MUNCHAUSEN IN KANSAS.

DAKOTA man and a Kansas man

were sitting on cracker boxes at the grocery store, and the Dakota man had just told a story about the big beets that were raised on the Red river. It was so large a story that a flour barrel near the stove coughed suspiciously and the Kansas man whittled off a larger slice of pine than usual from the corner of his box. Finally he said, in a pensive tone, as if calling up the details gradually out of a roomy

"I remember when I went to Kansas iu the spring of '68 it was awfully dry, but I had great faith in the productiveness of the soil, aud I put in eighty acres of the finest seed wheat you ever saw. It didn't rain all summer, and not a spear of that wheat came up.

"Well, gentlemen I can tell you I felt pretty sad. But I managed to scrape through the winter and the next spring I sowed the same piece of land to barley. But it didn't rain a drop all that year, and not a hlade of that barley came out of the ground.

"You may depend upon it, I felt pretty nigh discouraged. But with the help of my wife's relations I pulled through the winter. I had great faith in the soil, and the next spring I sowed the same piece of ground to oats. If you will helieve me, not a drop of rain fell all summer and the oats never came up.

"That was the summer of '70. Well, in that fall it began to rain, aud it did raiu. The flood was a tributary to that rain. It kept right on raining all spring, and in July I had the finest crop of wheat you ever saw-the wheat that I sowed in '68, you understand.

"I harvested it and just after it was all in it began to rain agaiu, and the next summer the finest crop of harley you ever saw came up, the barley that I sowed in '69. It was a fine crop and I paid off all my remaining debts

"The next spring we had a fine rain, and the oats that I planted in '70 began to come up,

The Kansas mau looked up and saw that he was alone. Even the flour barrel had edged away hehind the stove, and the Kansas man smiled as he said to himself: "The soil of Kansas is remarkably productive."

ON THE TRAIN.

"Excuse me, sir, but that open window is very annoying," said Blossom to a drummer sitting hy the open window in a railway

"I'm sorry, but I'm afraid you'll have to grin and bear it," said the drummer.

"I wish you would close it, sir."

"Would like to accommodate you, but I can't," was the reply.

"Do you refuse to close that window, sir?" "I certainly do."

"If you don't close it, I will."

"I'll het you won't."

"If I go over there I will."

"I'll give you odds you won't." "I'll ask you once more, sir, will you close

that window?" "No, sir, I will not."

"Then I will, sir," said Blossom, getting on

"I would like to see you do it."

"I'll show you whether I will or not, sir." placing his hands upon the objectionable

"Why don't you close it?" said the drummer, as Blossom tugged at the window.

"It-appears-to be stuck," said Blossom,

getting red in the face. "Of course it is. I tried to close it before

vou came in."

WHAT DID THE PREACHER THINK?

Over in Jersey City there is a very bright little girl of six years, whose father is a Presbyterian, with an occasional fondness for the hottle. They live a few doors from the church. A few Sundays ago the parents went to the communion service, and baby was left at home to escape the loug ceremony. It was a warm day, aud "Coronation," the usual closing hymn, floated out through the open windows. The good deacon took the pastor home to dine with him. When grace had been said little Bessie remarked:

I knew you was comin' home, papa."

"How did you know, little one?"

"'Cause I heard the song."

"What song?" asked the preacher. "Oh, you know, the one where you say 'brius forth the royal demljohn."

PROFOUNDEST DEPTHS.

They stood on the American shore and gazed in wonder-struck silence at the majesty and beauty of Niagara. The personification of feminine grace and tenderness, she leaned confidingly on the arm of her husband-her ideal of manly strength and chivalry. The glowing sunheams danced in the spray that rose like fair mountains hefore their gaze, radiant with the gorgeous hues of the rainbow, and the falling waters sounded their eternal monotone in the ears of the listeners, whose hearts beat responsive to its deep pulsations. Nature's own voice spoke to them and stirred the profoundest depths of their being.

The young husband pressed the little hand that lay confidingly on his arm, and smiled at the sweet face upturned to his.

"Gwendolen," he said, the rapture of his emotions thrilling his voice and shining out through his dark eyes, "does it stack up to your expectations?"

"Launcelot"-and her eyes seemed about to overflow with excess of pent-up feeling-"it's just the cutest thing I ever struck."

KNEW IT ALL.

Two men were standing outside a Broadway jeweler's window recently, admiring the gorgeous display of glittering jewels that lay heforethem, and criticising such as failed to suit their fancy. Presently one of them, pointing to an object in a red plush tray, said: "Just look at that scarf-pin representing a Anyone can tell that's not real."

"Well, I should think so." answered his friend. "Who ever saw a common fly with such a bright appearance? Why, it makes me weary when I think that the jeweler who produced that fondly hoped that some one would purchase it to deceive his friends. If I saw that on a man's scarf I could tell directly that it was an enameled imitation, and an unar-

tistic one at that." At that moment the object of the critic's condemnation moved across the tray, flew in the air and vanished. The two men looked each at the other, gasped and moved away without a word .- Jeweler's Weekly.

WANTS ONLY HIS OWN.

A Detroit lawyer received a letter from Texas the other day on which the postage stamp was of an issue current fifteen years ago, and ou the euvelope of which there was a request to return if not delivered sometime pretty soon." The contents read:

"Sometime in the year 1700, a man by the name of Hooten, took up two acres of ground in your town. He is dead. I am his heir. I want to find out all about it. I want you to search the records and send me all the papers and information you can. If them two acres is there yet I waut 'em. If not, I don't. I only want what helongs to me as his lawful heir. Enclosed you will find twenty-five cents in stamps to pay for your trouble. I am well. Answer as soon as possible.—Detroit Free Press.

MEDICINE WANTED.

An old war veteran limped into a shop one day and said to the druggist.

"I want some medicine."

"What kind of medicine?"

"Oh, some sort of vermifuge, I suppose." "Where does the seat of your difficulty seem

"In my wooden leg, mister. It's gettin' all worm-eateu."

A HOME THRUST.

"My wife is afraid of a mouse," said soaker. "That doesn't prove her a coward," said Miss Lightly. "She is possessed of more courage than most women, and has proved it."

"How, pray?"

"By marrying you,"

JOYFUL NEWS.

Customer-": I want a pound of quinine and two quarts of whiskey.'

Druggist-"I'm sorry to say, sir, that we're just out of quiniue."

.Customer (brightening up)-"Make it three

quarts of whiskey."

A TERRIBLE THREAT.

Borsleigh-"Ha! Smart, if you doubt my word I'll slay you with the jawbone of an ass." Smart-"Indeed! Are your talking powers so great as that?"-Princeton Tiger.

RETURNING THE COMPLIMENT.

Jack Dedbroke-"Ah, Miss Somers, you look as fresh as a rose this bright morning." Miss Somers-"You are fresher than that.

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My doctern is to lay aside Contentions and be satisfied; Just do your best, and praise or blame That follers that counts, just the same I've allus noticed great success Is mixed with trouble more or less. And it's the man who does the best That gets more kicks than all the rest. JAMES W. RILEY.

THE LITTLE ONE'S REBUKE.

HERE is a woman in this city whose wealth, position and goodness fill her life with social aud charitable occupations, says the New York Times. But for more than six months it has been impossible to procure her presence anywhere on Saturdays. She has told one or two intimate friends the reason:

"It was one day in the latter part of March that my little daughter, Constance, who is twelve years old, came into my room as I was hurriedly dressing to drive to a directors' meeting of one of the several charities in which I am interested. Her birthday had been the day before, and she had a game, one of her presents, in

"'Oh, mamma,' she cried, full of eagerness, 'this is the loveliest game; do try it with me.' Her request, in my haste and absorption, seemed in the highest degree trivial to une. 'Nonsense, Connie, you know I cannot,' I replied, rather sharply; 'this is board day at the hospital, and I am shockingly late now.'

"I was standing in front of the mirror and I saw in the glass how her face fell and the light died out of it. 'I wish,' she said, wistfully, 'you would sometimes have a day with me, mamma.' The child's speech went through me like a knife. I had never received so stinging a rebuke. Was it possible that in the pursuit of other duties I was neglecting the one that should be chief? My drive to the hospital that morning was full of serious introspection, and Conuie has had her Saturdays ever since."

WOMEN PHYSICIANS FOR INSANE WOMEN.

The proposition which is pressed with great vigor by the Women's Educational and Industrial Union of Buffalo, that in every hospital and asylum under state control in this state there should be at least one educated woman physician, is so essentially reasonable and so justified by experience that it is impossible to see upon what ground it could be opposed. Legislative action upon the subject has been taken in Massachusetts, Pennsylvania and Ohio. In ten other states-Maine, Michigan, Minnesota, Indiana, Illinois, Iowa, Nebraska, New York, California and West Virginia — women physicians have been voluntarily appointed by superintendents or trustees. There are now more than twenty such physiciaus serving in state institutions.

New York legally sanctious the education and practice of women physicians. Is there any good reason why she should not provide by law that every unfortunate insane woman under the care of the state shall have the services of an expert of her own sex if she desires it? Surely the question carries its own answer. It would be thought a very hard dispensation that insane men should not be attended by men physicians if they so desired. The reasons in the case of both sexes are obvions and familiar. The only regret and wonder is that a provision so humane and natural and consoling for these unfortunate wards of the state has not yet been made law.

REAL AND IDEAL.

Sometimes there are living beings in nature as beautiful as in romance. Reality surpasses imagination; and we see breathing, brightening and moving before our eyes, sights dearer to our hearts than we ever beheld in the land of sleep.

Recent Lublications.

NITRATE OF SODA FOR MANURE.-Some valuable and timely information is contained in a 96-page treatisc on the "Use of Nitrate of Soda for Manure," and the best mode of its employment, written and published by Mr. Joseph Harris, M.S., of Mooreton Farm, Monroe county, N. Y., the author of "Walks and Talks on the Farm," "Talks on Manures," and various other standard works. Mr. Harris is the man who has first urged the use of nitrate of soda for manurial purposes in America with energy and persistence. For this service alone, the progressive gardener of the day, who is now enabled to give to some of his crops, with the aid of nitrate of soda, a luxuriance seldom obtained except on new and excessively rich soil, is under great obligation to him. The work treats also on the use of nitrate of soda for general farm crops and it will prove interesting to the farmer as well as the gardener, especially since the tendency of the times is towards cheapening this manurial substauce and towards bringing it within the reach of everybody. The price of the little work is only ten cents, and everyone at all interested in progress in farm and garden matters should get a copy and study it.

EXPERIMENT STATION BULLETINS.

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ALABAMA .- (Auburn) Bulletin No. 20, November, 1890. Small fruits, melons and veg-

ARKANSAS .- (Fayetteville) Bulletin No. 15, December, 1890. The action of some new insecticide on the cotton worm.

CONNECTICUT .-- (New Haven) The potato scab. Proleids of the oat kernel. Milk testing. Georgia.-(Experiment) Bulletin No. 9, (special) October, 1890. Potash as fertilizer.

Indiana.-(LaFayette) Bulletin No. 33, October, 1890. (1) Small fruits. (2) Entomological notes. (3) The absorbtive power of soils.

CALIFORNIA.—(Berkeley) Bulletin No. 89. Distribution of seeds and plants.

MAINE.-(Orono) Annual report for 1889. Part III.

MASSACHUSETTS.-(Amherst) November 1890 Analyses of commercial fertilizers.

MICHIGAN.-(Agricultural College P. O.) Bulletin No. 67, October, 1890. Fruit testing at the South Haven sub-station. Bulletin No. 68. The Jack pine plains. Milk. Ensilage. Fer-tilizer analyses. Bulletin No. 69, November, 1890. Herding steers of different breeds.

NEW JERSEY.—(New Brunswick) Bulletin No. 75, November 1890. Insecticides, and how

NEW YORK .- (Geneva) Bulletin No. 24, October, 1890. Experiments with strawberries. Bulletin No. 25, November, 1890. The New York state fertilizer control and fertilizer analyses. OREGON .- (Corvalis) Bulletin No. 6, July 1890. Examination of cattle foods.

RHODE ISLAND.—(Kingston) Bulletin No. 8, September 1890. Soils and fertilizers.

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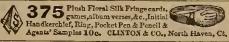
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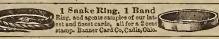
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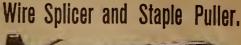
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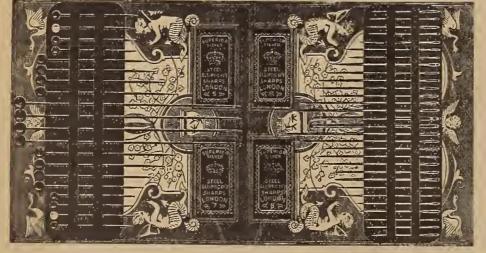
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CONTENTS.

las! those chimes.

Innie Laurie.

rkansas traveller.

Id lang syne
vet of loves.

tie prayer
of Oak Hill.

Eminie liullahy.

Keelrow.

K

Happy new year.
Harp that once.
Heel and toe. polka.
Hey, daddy.
Highland fing.
Home, sweet home.
Hull's victory.
Imperiale, L'.
Irishman s heart.
Irish trot.
Jakie's hornpipe.
Jesus, lover of my.
John Anderson.
Jordan is a hard.
Keelrow reel.
Keep the horseshoe.
Keudall's hornpipe.
Kitty O'Neil Jig.
Ladies' trinmph.
Lady of the lake.
Lancashire clog.
Land of sweet Erin.
Larry O'gaff.

Le Petre a hornpipe.
Light artillery.
Lord's my shepherd.
Madrilainne, Lae
Minuet.
Minuet.
Minuet.
Money Musk.
Mother's song.
Oh, carry me hack
Old oaken hucket.
Old rosn, the heau.
Old zip coon.
Only.
On the banks.
Opera reel.
Our first and last.
Over the water.
Over the water.
Oyster river.
Lysten in the Minuel College of the C

of sweet Erin. Oyser the water. of sweet Erin. Oyser river.
O'gaff. Perplexity.
La Good for the tongue. La Gorlitza, original. In time of apple hlos ms. Irish washerwoman. Ne Jally dancers medley. Kathleen Aroon.
Kathleen Marourneen. Lady Walpole's reel. Lady Walpole's reel. Sir Support of the state of

Petronella.
Polly wolly doodle.
Portland fancy
Prince or peasant.
Quilting party
Rickets hornpips.
Rohin Ruff.
Rocket galop.
Rory O'More.
Rosehud reel.
Rustic reel.

Silent night.

Smith's hompipe.
Suuff-box waltz.
Soldier's joy.
Spanish dance.
Speed the plough.
Spirits of France.
Sun of my soul.
Tempest, The.
Tempete, La.
There is rest.
Thunder hompipe.

le Dan'l's. le Sam's farm.

Seft music is stealing.
Somnamhula quickstep.
Sparkling dewdropscho.
Steamhoat quickstep.
Tis true, we're fading.
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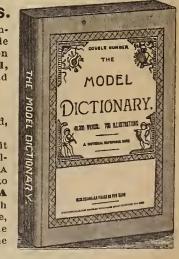
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VOL. XIV. NO. 9.

PHILADELPHIA, PA., and SPRINGFIELD, OHIO, FEBRUARY 1, 1891.

TERMS \ \ \frac{50}{24} \ \text{NUMBERS.} \ \ \text{VEAR.}

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omment.

EFERRING to a statement made not long ago in these columns, that auy curreucy not redeemable in gold and silver coin is a failure, a correspondent asks what the greenbacks are redeemable in. By the manner of his communication he implies that they were not redeemable in coiu. Well, what is a greenback, anyway? Look at it carefully the next time you get hold of one. We do not mean to insinuate that money is a scarcity with you. We hope that you are more fortunate than most people at the present time. But in handling currency, you will find that most of it in circulation is gold and silver certificates and national bank notes. But read the next one you get hold of and you will find that it is simply a promise to pay money. What kind of money? The greenback or United States Treasury note is a note issued by the government to pay, on demand, the sum of money named on its face. It is not real money, but credit money, a promise to pay money. And the money it promises to pay is the money that was in use at the time it was issued. The money in use was gold and silver coin when the United States Treasury notes were issued. The money they promised to pay is gold aud silver money, not iron money, or copper money, or fiat money.

To redeem these promisory notes of the government, the national treasury holds in reserve \$100,000,000 in gold and silver coin. Three times that amount of uotes are in circulation, but the credit of the government is so high that they are at par. There was a time when the credit of the government was not so good and they were worth only forty cents on the dollar. Like ordinary notes of hand given by individuals or business firms, they rest on the solvency of the parties making them. With the important exceptions of being especially prepared in convenient form for circulation and to guard against counterfeiting, and issued under special national laws, greenbacks are like ordinary notes of hand.

National bank notes are also credit money. Gold and silver certificates are representative money. They are certificates of gold and silver on deposit in the treasury of the United States, payable to the holders of the certificates on demand. They represent the coin in circulation, serve as money and are redeemable in coin.

The same correspondent, referring to the sub-treasury scheme, asks why a mortgage on land would not be better and a safer security to the government than anything else. It is not a question about the quality of the security at all. It is

make a special privileged class of the owners of real estate and loan them money at a low rate of interest.

HE free silver coluage bill passed by the senate provides "That unit of value in the United States shall be the dollar, and the same may be coined of 4121/2 grains of standard silver, or of 25.8 grains of standard gold; and the said coins shall be legal teuder for all debts, public and private. That hereafter any owner of silver or gold bullion may deposit the same at any mint in the United States, to be formed iuto standard dollars or bars for his benefit, and without charge; but it shall be lawful to refuse any deposit of less value than \$100, or any bullion so base as to be unsuitable for the operations of the mint." The bill also provides for the issue of coin certificates of denominations of not less than one, or more than one hundred dollars, and that such certificates shall be redeemable in coin of standard value.

Section 4 of the bill provides "That the certificates provided for in this act, and all silver and gold certificates already issued, shall be receivable for all taxes and dues to the United States of every description, and shall be a legal tender for the payment of all debts, public and private."

There is a probability that this bill or one equivalent to it may become a law within a year. As to the effect of such a free coinage act there is a diversity of opinion. If it will enhance the value of silver so that it shall be on a par with gold, then well and good. If the value of silver does not increase, and the government stamps the dollar mark on eighty cents worth of silver, then gold will disappear from circulation, and this country will descend to a place alongside India, China and other silver standard countries. The bill does not confine free coinage to the bullion produced in this country, but throws the mints open to the world. If this bill should pass and result in giving this country depreciated money, the speculators and silver kings will have a bonanza at the expense of the farmers, wage earners and merchants of this country. There is another class that want a depreciated currency for the purpose of having their debts scaled down. There are many who honestly believe that free coinage will bring silver up to par with gold and benefit the country. The only way to settle the question seems to be to make the experiment. It is a risky experiment, but it is the only thing that will satisfy the large and increasing number of advocates of free, unlimited silver coinage.

BILL has recently been introduced into the Ohio legislature to do away with the double taxation of mortgaged property. The purpose of the bill is most commendable. This double taxation is an unjust burden of the most grievous kind, and must be carried by those least able to bear it.

Under the constitution of Ohio, laws must be passed taxing, by a uniform rule, all moneys, credits, investments in bonds. joint stock companies, or otherwise; and also all real and personal property according to its true value in money, excepting school, church and public property, and personal property to an amount not exceeding two hundred dollars for each individual. Under the laws mortgages are

and the result is double taxation. The tax on the mortgage is paid by the holder, but he covers it by increasing the rate of interest, and the holder of the mortgaged property really pays both the tax on the mortgage and the tax on the property. If the tax is two per cent, the true rate of interest is increased by that amount, and the borrower, the one least able must pay it. Whenever property and the mortgage are both taxed, there is double taxation, and all of it paid by the borrower.

Without an amendment to the constitution this double taxation can be avoided only in a roundabout way. Neither the mortgage or the property encumbered can be exempted. So in order to remove the injustice to the borrower, it is proposed to have the amount of tax paid each year on the mortgage, indorsed on the note as a partial payment.

The object is to relieve the borrower of an unjust burden and to compel the lender to really pay the tax. But the plan will not work that way unless the lender is prevented from raising the rate of interest to cover the indorsement, just as it has already been raised to cover the tax. If not prevented, the lender will advance the interest and the borrower will not be relieved of double taxation, but will simply be compelled to make an annual partial payment on the mortgage note, which might not be satisfactory either to the lender or himself. For the proposed law to be effectual it must be supplemented by something that will prevent the rate of interest from being advanced. It is certainly not the spirit of the constitution, that the same property should be taxed twice, either directly or indirectly. But if there is no other way to avoid it, let the constitution be amended.

HE great American Harvester Company, that was the wonder and the talk of the country for a few weeks, has goue out of existence, and there are very few mourners. The reason given for abandoning the combination is that it ran afoul of the laws against trusts in several states. The harvester company was not a trust, but a joint stock company. It was apparently a more powerful monopoly than a trust. But the laws in some states are comprehensive enough to forbid corporations from holding stock in another corporation for the purpose of forming a monopoly. The harvester combine fell within the range of these laws, and on the advice of eminent legal counsel the organizers abandoned it. The organizers have stoutly denied that

their purpose was to advance the price of machines, but maintained that their object was to legitimately increase their profits by decreasing the cost of production and distribution, and to ultimately lower the price of machines to the farmer. Farmers refused to be convinced that the object of the combine was not to raise prices, and there was a steadily increasing hostility against it. The ability of a great monopoly to lower cost of production is not questioned; but its willingness to ever voluntarily give the purchasers any benefit of such reduction is doubted. When a monopoly shares such benefits with the consumers, it is a benefit to the community. A well known political economist truly says: "There is every indication that we are to see new developments of the power of aggregated capital whether or not the government shall taxed as well as the property mortgaged, to serve civilization, and that the new the publishers want them to know it.

developments will be made right here in America. Joint stock companies are yet in their infancy, and incorporated capital, instead of being a thing which can be overturued, is a thing which is becoming more and more indispensable." Trusts and monopolies are a power for good or evil. We are just now in that stage of the development of civilization when it is wholly within the power of those in the combine to absorb all the benefits to be derived from it, and also to oppress the community by advancing prices, and amass great and sudden wealth at its expense. When the time comes for the benefits to be distributed fairly, a trust will be a blessing instead of a curse.

HE Alliance and other farmers' organizations that took such an active part in politics last fall, have an important work before them now. It is time to get ready for the spring elections. Reform in politics begins at home. If these organizations are in earnest and intend to keep the farmers' niovement going, they will not neglect looking after the election of local officers. It is within the power of the farmers in most communities to combine, go into the primaries, and nominate the candidates of either of the old parties. It will not be necessary in very many cases to put new tickets in the field. An organized movement will in many cases secure the nominations in the dominant party. If that fails, then try the minority party. If both fail, put an independent ticket in the field. Determined action on the part of the farmers will soon bring either one or the other of the old parties to terms. Above all, let not the nominations go to the brokendown political hacks and party sore-heads who are now cultivating the political field so industriously, and trying to take advantage of the farmers' movement to work their way into office.

N response to a demand from the farmers, expressed in a resolution adopted at the formation of the Farmers' Union last summer, a bill has been introduced into the Ohio legislature providing for the election, by the people of the state food and dairy commissioner. As the office is now filled by appointment, it is usually given as a reward for political party services. And it is not such a difficult matter for those interested in not having the food and dairy laws enforced, to influence the appointment in their favor. The farmers of Ohio are now asking themselves what is the use of having these laws if they are not enforced. It is not absolutely certain that it would be better to have the office filled by election than by appointment, but they would like to try it.

UMEROUS inquirers for seeds, plants and trees are respectfully referred to our advertising columns. Seed and nursery catalogues are now in full bloom. and you can easily collect a choice bouquet from the florists, seedsmen and nurserymen whose advertisements appear in our columns. If you need anything in their line, send for their catalogues. Besides price lists and descriptive matter, many of these catalogues contain much useful information about the culture of flowers, fruits and vegetables. When you apply for a catalogue, kindly mention where you read about it. Advertisers like to know what papers give them the largest returns, and

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Gur Larm.

COMMENTS ON STATION BULLETINS.

BY JOSEPH (TUISCO GREINER).



ERTILIZER CONTROL. In the year just passed, New York state has enacted a seemingly good law, curiously entitled "An act for the protection and education of farmers and

manufacturers in the purchase and sale of fertilizers." The director of the New York State Agricultural Experiment Station, Dr. Peter Collier, Geneva, is charged with the enforcement of the provisions of this act. The object of the law is simply to require that the fertilizers offered for sale shall contain such ingredients and in such proportions as the manufacturers claim. No standard is prescribed by the law for the composition of a commercial fertilizer. Each manufacturer makes his own standard for each brand, the guarantee analysis showing what that standard is. The law proposes simply to see to it that the manufacturer shall keep his goods up to the standard set by himself.

The act requires of the manufacturers (1) That they attach to each package of fertilizers a guarauteed analysis; (2) That they, between the first and twentieth day of July of each year, furnish to the director of said station, a list of the commercial fertilizers they manufacture or offer for sale for use in the state, with the names or brands under which they are known on the market, and the several percentages of nitrogen or its equivalent, of ammouia, of phosphoric acid, soluble and insoluble, and of potash, either single or combined.

Dr. Collier's duty is to collect, through his agents, samples of the different fertilizers and have these samples analyzed. If the analysis shows a deficiency of more than one third of one per ceut nitrogen, uiore than one l'alf of one per cent available phosphoric acid, or more than one half of one per cent of potash soluble in distilled water, the manufacturer is liable to prosecution.

"Every person, firm or corporation violating any of the provisions of this act shall, upon conviction thereof, for the first offense, be punished by a fine of not less than fifty dollars, nor more than two hundred dollars, and for the second offense by double that amount, at the discretion of the court."

There can be no doubt that such a law must act as a wholesome restraint to fertilizer manufacturers. While the penalties for violations are not so very severe, I imagine dishonest manufacturers and deal-

ers would stand in considerable fear of legal proceedings, as such would naturally tend to hurt their reputation and diminish their sales. Just for this reason I would like to see a similar law enacted in every state. I cannot understand, however, why there should not be uniformity in the form of analysis. Why allow this equivalent in ammonia in place of simple nitrogen, and why potash either single or combined? The farmer is not any too familiar with chemistry, and the comparison of the different values of fertilizers should be made as easy as practicable for him. If information of the source of plant food elements is thought desirable, let it be something like this: Nitrogen (in ammonia); nitrogen (in nitrates); nitrogen (in organic matter); potash (as sulphate); potash (as muriate), etc., as the case may

A subscriber of FARM AND FIRESIDE asks me whether the bnyer can collect damages in a civil suit from the manufacturer, if his fertilizer falls below its guaranteed analysis or commercial value. I should think he could if he is able to prove the facts. This latter might be feasible in case the manufacturer has been previously convicted for the same offense in connection with the same brand of fertilizer, in an action brought by Dr. Collier. Otherwise it would be difficult, if not almost impossible, and in any case I would rather snffer the loss than go to the expense of fighting the manufacturer single handed.

Bulletin No. 25 (new series), of the New York Agricultural Experiment Station, which contains a copy of the mentioned law, also gives us the promise of the publication of a number of bulletins giving information on the principles underlying the use of fertilizers; description and sources of fertilizing elements; economical purchase and rational use of some fertilizing elements; prices of raw materials, etc.

More New Insect Remedies .- Bulletin

grower should be induced to take further

The bulletin recommends the Cyclone and Nixon nozzles for applying liquids in a fine spray. The Cyclone with the "Vermorel" modification for clearing the nozzle of obstructions, is the most widely applicable for spraying low plants and bushes, like cabbages, potatoes, currants, blackberries and others.

Potash salts, especially kainit, have been found to possess very valuable insecticide properties. A solution of one ounce of kainit in one pint of water, killed wire worms and cabbage maggots in soil impregnated with the solution. Rose bushes infested with plant lice were speedily cleared of the pest by spraying them with the same solntion. In no case was any injurious effect on plants observed. Muriate of potash of the same strength was sprayed on some greenhouse camelias badly infested with mealy bugs. It killed all the insects without damage to the plants. It also proved promptly effective for the rose-leaf roller, but injured the foliage and flowers of Wisteria, the younger leaves of maple and grape and the finer kinds of roses.

Kainit seems preferable to muriate, as acting more effectively on insects and not iujuriously on plants. For general use on plants it is not to be recommended, but more especially for underground pests. The best method of application would be by broadcasting in fertilizing quantity before or during a rain, so as to carry the material into the soil at once. In corn fields infested with grubs or wire worms, the application should be made before planting. Where it is to be used to reach root lice, it should be used when the injury is beginning. When strawberry beds are infested by the white grub, the application should be made when cultivating or before setting out.

Tobacco has long been used for the destruction of insects. The New Jersey entomologist prepared a stock, by making a 75, of the New Jersey Agricultural College decoction and boiling it down so that a



RAIL AND WIRE FENCE.

Experiment Station, gives some interest- | pint of the liquid contained all that could ing notes on "Insecticides and how to apply them." Spraying, both for insects and fungi, has now become a generally recognized necessity among fruit growers and gardeners, and the question whether to use Paris green or London purple for insects, seemed to be all settled in favor of the former. I have just been among the fruit growers of Ontario, Canada. Many of them spray not only apple and pear trees, but also plum and cherry trees with Paris green. They find it effective against codling moth, curculio and leaf eaters generally, and if properly diluted (two ounces of Paris green in forty gallons of water), no injury to the foliage has beeu observed by its application to any of these trees. The entomologist of the New York station, however, advises the use of London purple in the proportion of one pound to two hundred gallons of water, with a pail or two of milk of lime added to the mixture. This addition of lime renders the soluble arsenic iusoluble, changing the acid nature of the mixture to an alkaline one, and thus prevents injury to the foliage. We should remember, however, with what emphasis some of our great authorities declared in favor of London purple only a few years ago, and people's nerves. I have used tobacco dust these same authorities now speak just as emphatically against it. The fact remains and the yellow-striped cucumber beetle. that London purple is variable in strength and perhaps composition and while Paris green applications, properly made, seem to be safe and effective, it would be wise to go slow on changing again to London purple. This matter should be ever, as the pest only seemed to congre-

be gotten out of one pound of stems. One pint of this stock in one gallon of water applied to potatoes badly infested by the flea beetles, checked injury at once and killed or drove away the beetles. It remained effective as a repellant for several days, until after a heavy rain. The beetles returning again, a decoction was made with one pound of "nicotiana" (coarsely ground tobacco) to one gallon of water, first steeping in two water and then adding enough more to make up the gallon. The success was as marked as before and the plants were not again troubled. Samples of the decoction handed to others for use against the same pest, were reported equally effective, and the universal addition was that the plants treated were the finest in the patch. This is probably due to the fertilizing effect of the tobacco.

The flea beetle has become a real dangerous pest in recent years, and if we can succeed in driving it away with tobacco, it is a most important fact; and I know of no better use that could be made of every pound of tobacco that is grown than to kill insects with it. It surely is better and more profitable than to have it kill with some effect, both for the flea beetle I noticed that a handful of the dust, thrown into the heart of a cabbace or cauliflower plant badly infested with flea beetles, drove them away quite quickly. I do not think it killed a single one, howmore fully tested before the general gate in larger numbers on plants not so brids which cannot be self-fertilized may

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treated. For the encumber beetles I applied it as a heavy dressing around the plants of each hill, covering the ground to the depth of perhaps an inch. Here again the dust proved its repellant powers, and the plants suffered almost no injury from the otherwise so destructive pest.

The same bulletin also speaks of naphtaline as an insecticide worthy of further tests. The results of my trials in hot-beds last year, where the pure naphtaline was thickly scattered among the plants and the air kept impreguated with its vapor, gave do indication that its presence in any way inconvenienced either the insects (and there were plenty of flea beetles) or the plants. The presence of a toad or two, however, proved very effective against the insects and cleared the beds in an astonishingly short time.

RAIL AND WIRE FENCE.

Mr. D. G. Hatcher seuds a description of a good and cheap fence, which is well shown by the accompanying cut. Let the taller posts stand about five feet out of the ground and the shorter ones two and a half feet. Wire the top of the short post to the tall one. Pnt rails between the lower posts, and run two wires on the taller posts.

THE PRODUCTION OF HYBRIDS.

I was much interested in the article by D. B. Wier entitled, "Hybridity in Fruit," in the last number of the FARM AND FIRE-SIDE. While I cannot agree with some of the sweeping assertions there made, I am glad that attention is again called to this subject and in so thoroughly a suggestive manner.

Cross breeding and hybridization are among the most important resources in horticulture. The former takes place instantly in uature and has the effect of repressing variation, or in other words, tends to prevent varieties from becoming species. As a rule, it is only the same species that interbreed freely and reciprocally. On the other hand, there seems to be few closely related species between which fertilization cannot be effected by skillful management. This crossing of species, whether they be closely allied or more remote, or whether we use the original form in each, or a variety of the same, produces, when successful, what is called a hybrid.

These are usually the result of man's effort and do not play a very prominent part in nature. The most characteristic feature of hybrids where we usually find a combination of the qualities of both parents, is a very low degree of reproductive power. In the animal kingdom nearly all wellknown examples of hybridity are sterile. Among hybrid plants we often find an absence of fertility. Self or close fertilization and remote cross fertilization produce the same effect.

Observation and experiment have shown that the sterility of hybrids, where it occurs, is sometimes owing to the abortive character of the stamens, little or no perfect pollen being produced. Many hybe readily successfully fertilized by the pollen of one or the other parent.

The following experiments in cross fertilization were made at the Ohio State University last spring, this work being one of the subjects of study of the advanced students in horticulture. Various crosses were attempted between different well-marked varioties of the currant and also between different varieties of the gooseberry. These crosses were entirely successful, the fruit developing perfectly. The cross-bred fruit did not show any particular effect of the pollen either in general or specific characters, although varieties that were widely distinct in shape, size and color were inter-bred. It remains to be seen what the seeds of these crosses will produce. To the Crandall currant was applied pollen from the Downing gooseberry, but this was a failure. The failure occurred, not because the cross is an impossible one, but for the simple reason that the single Crandall current bush growing upon our grounds, although it bloomed freely the past year, failed to set any fruit at all. The flowers, which were abundant, appeared to be perfect, and had what seemed to be perfect stamens, yet for some at present unexplainable cause, no fruit followed the bloom either from artificial or natural

I might add that an attempt was made to fertilize the Crandall with the pollen of the Ruby Castle currant and some other varieties, but these attempts, as I have stated, all ended in failure.

SELF AND CROSS FERTILIZATION OF THE CHERRY.

The following tests were made with this

1. Twenty-five well-devoloped, single flower-buds were securely covered before the blossoms opened. About a week after the blooms had fallen the covers were removed. Only two of the twenty-five flowers appeared to be fertilized, and the ovaries of these only partially developed. for they dropped off long before maturity. A little more than five per cent of the uncovered flowers on the same tree produced

2. Six branches on different parts of a sweet cherry tree containing from 100 to 150 flower-buds each, were covered with fine gauze before any of the flowers were open. Six other branches, similarly situated and containing approximately the same number of flowers, were labeled for comparison. The percentage of developed fruit from each branch was as follows:

NUMBER.	COVERED.		UNCOVERED.		
1 0.0 per					
2	6.5 ""	44	8.5	64	64
3 -	0.0 "	6.6	25.6	68	44
4	0.0 "	16	9.6	44	6.6
Ē	10.0 "	16	42.0	4.6	44
6	5.0 "	4.6	30.0	66	66
A verage.	3.6 "	44	21.7	66	44

The covered flowers may have been injured to some extent by the excessive rains that fell during the period of blooming, but from all appearances those that were uncovered suffered the most from this cause. Branches on certain portions of the tree being more favorably situated, gave better results than others having the same number of flowers but a less favorable location. The test represents fairly well the influence and usefulness of insects in tertilization.

In this experiment the covers were removed as soon as the period of blooming was fully past, so the two lots were subjected to the came conditions except during this period.

3. An effort was made to secure

between the sweet cherry and crosses eties or species of the same other vari-The blossoms of hut sub-order.

of the Mazzard one tree, a variety operated upor or sweet cherry, were .. These were crossed as follows: 1. W'

ith another distinct variety of SW' set cherry.

2. With a sour or Morollo cherry."

3. With a wild goose-plum.

4. With a seedling peach.

Numerous flowers from each of the above-named varieties were collected and allowed to wilt so that the pollen could be easily dusted over the stigmas of the flowers prepared to receive it.

This preparation was made in the following manner: From four to twelve flowers on 6 ach of sixteen different ing drone brood and place this in the

branches of the tree were selected just before opening, and the anthers carefully removed. Then the flowers thus treated were securely covered. Two days after, the conditions being favorable, the pollen was applied. Only one application was made and the sixteen lots were each equally divided among the four varieties of pollen. The flowers were immediately covered as before and loft for nine days.

At that time a large proportion showed more or less influence of the pollen, as though fertilization had been effected; but in the course of a week or so nearly all of the set fruit dropped off. What was left was covered with mosquito netting just as the frult began to turn red, in order to protect it from the birds. The number of cherries that matured and were picked was as follows:

- 1. Fertilized by sweet cherry, 4.
- 2. Fertilized by sour cherry, 2.
- 3. Fertilized by plum, 1.
- 4. Fertilized by peach, 11. There was no apparent difference in the

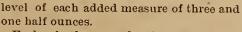
fruit, but the larger number of successful crosses, with peach pollen, when the same number of flowers were tried with each of the three other varieties, is significant. The pits have been saved for WILLIAM R. LAZENBY.

Ohio State University.

A SIMPLE RAIN GAUGE.

Let the tinsmith make a funnel with a small-say one quarter inch-opening at bottom, and having a two-inch band soldered round the top as shown in sketch, to prevent the rain that falls within it splashing out again. The upper edge of this band must measure

an exact eight inches in diameter. Take a good, A large bottle-an ordinary wine bottle will serve, but in localities where the rainfall is heavy something larger is preferable -into this bottle measure three and one half fluid ounces, and mark the bottle at the water level; so on till the bottle is filled, marking the water



Each of these graduations shows one eighth inch of rainfall. For convenient references the graduations may be marked on a strip of paper and gummed outside the bottle.—Exchange.

A PRACTICAL SYSTEM OF MANAGING AN APIARY FOR SURPLUS HONEY

In running an apiary for large yields of surplus honey, the first thing we want at the beginning of the honey flow is bees. We want to know how to have our hives literally "boiling over" with bees, for it requires bees to gather the nectar from the flowers. To get the bees at the proper time we must have a prolific queen-one whose reproductive powers, or egg laying, we can manage to suit the time of our honey flow. We must also see that our bees are well supplied with plenty of stores, both honey and pollen, in early spring, and well protected from the cool nights and early frosts by keeping the hives well protected with ohaff or other suitable material.

As the danger of chillcold "snaps" begins . .ed brood from that not one employ to the brood-nest, then they would commence to spre to pass, we must found in the brood-nest, then they would commence to spr to pass, .npty comb in middle, using caution les' so we get ahead of the bees and nem to get more brood on hands

an they can protect in case a cool spell should set in. In a few days take the two outside frames containing brood and place them in the center, placing the two center ones in their places. Repeat this a few times, and when all danger of chilled brood is past, take the frames containing the most brood and place them next to the sides of the hive, placing those containing the least brood in the center.

If there are not enough stores, feed a thin sirup made from granulated sugar. Place rye flour where the bees can have free access to it. They will carry this in, which answers for pollen in brood rearing. When the honey flow sets in, which is known by the bees commencing to whiten their combs, along the top bars, reverse your frames and put on your sections, with starters or partly built out combs for "bait." If bees refuse to go into the sections, fill a section with comb contain-

center of your super. I know all this, is not new, but the proper management during swarming time is where the main surplus crop is secured.

When I first commenced keeping bees I read in our bcc books and journals that when our bees swarmed we must secure as many foragers with the swarm as possible. This was accomplished by moving the old hive to one side, turning it half way around and placing a now hive in its place, when a swarm issued. The swarm was then hived on the old location. Every day the old hive was turned a little, so that on about the sixth day it faced in the same direction as the new hive containing the swarm. At about 12 o'clock, when as many of the becs were out as possible, the old hive was carried to a new location, so that the returning foragers would enter with the swarm.

This required too much labor, and I adopted a plan requiring no hiving-boxes or other swarming implements, giving much better results and requiring much less labor. I clipped the wings of all-my queens, and when a swarm issued I caught and caged the queen, moved the old hive a few fect to one side and placed a-new hive in its place. I then took the super off of the old hive, using a little smoke, of course, and set it aside. I next took off the honey-board and lifted out the two outside frames from each side of the brood-nest, with their adbering bees, and placed them in the new hive, breaking off all queen cells and again reversing the frames. I then filled in between these four frames, four other frames (an eightframe hive is best), filled with foundation, put on the honey-board and a new super of sections filled with foundation, and on this super I placed the super from the parent colony (old hive) and covered them up. By this time the swarm was returning, when I released the queen and let her run in with the swarm. I had them swarmed and hived at one operation, with very little labor, and the result was more honey from the swarm than under any

previous management. The object in putting into the new hive the four frames from the old one was twofold. First, to get the working bees with the swarm; and second, to so reduce the strength of the parent colony that I would not be troubled with after-swarmsswarms issuing with virgin queens, the wings of which I could not clip, as they had never mated. I then carried the old hive to a new location, taking care of the queens as they hatched out, and giving frames as needed, so that the old colony built up strong and in good condition for winter,

Last season when my first swarm issued I was away from bome. My wife moved the old hive to one side, put a new one in its place, gave the swarm four empty combs and left them thus until I could return and "fix" them. I returned about sunset, and when I opened the hive I found a vast number of the cells on all the combs pretty well filled with the honey that the bees had brought in their sacs from the parent colony. Here was a valuable lesson accidentally learned. "If those bees had been given frames solidly filled with young brood or sealed honey, and only starters in the other frames, so that not one empty cell could have been have been compelled to deposit the honey in their sacs in the sections, and thus the habit of going 'upstairs' would have been induced, which would have been kept np till the end of the honey flow."

This was my reasoning. I then changed my system to suit it. When my next swarm issued I hived it on the plan given above, except that instead of giving them the ontside frames and frames of foundation, I selected four frames containing eggs or very young brood, or scaled solid with honey, and placed between them four other frames with one-half-inch starters. It would be several days before any of the brood would hatch, and as fast as the bees built comb from the starters the queen was ready to deposit it full of eggs. In one hour the bees were working lively in the sections, just as I had calculated they would, and kept working in the sections to the end of the season. This plan works to my entire satisfaction with the invertible, hanging frame. In using the invertible and divisible hive, with closed end frames, a slight change in the above plan would have to be made.

Now, why fuss with "swarming-boxes" and other expensive, unnecessary and annoying implements, and then be mortified at having your surplus crop ent short, and your best queens and most valuable swarms abscond, when an inexpensive and much better plan can be adopted-one that will require much less labor, save tho climbing and cutting of valuable trees, the loss of fine queens and swarms of bees, and give more honey?

Don't like to clip your queens' wings? Then use friend Alloy's queen and drone traps. You work to prevent swarming, so as to keep down increase, do you? I would not have bees that would not swarm; but if I wanted to keep down increase I would combine Dr. Tinker's plan with the above; Simply shake all the bees from the remaining four frames from the parent colony, in front of the hive containing the swarm, and place them over some colony capable of taking care of the brood. No, sir; I would not use the parent colony, or any other, for that matter, as a nucleus for queen rearing. I would use a more progressive and much better plan for queen rearing.

T. K. MASSIE.

A WINTER TONIC.

If you have never had lettuce of your own raising in mid-winter, do not live another winter without it. It is a tonic, a luxury, that wards off (the doctor) and builds up. Even the sight of it, beautifully green when the earth is "sere and brown" or covered with snow, is a help.

Plant seeds in a window-box. If the ground be frozen and no protected place can be found where a pit may be dug, make a "pen" of boards or plank, three feet wide and six feet long, just the dimensions of a gardner's sash. Make the pen three feet deep; then put in two feet of green horse-manure, crowded down a little, and on top a foot of rich loam, good black earth, made richer by fine manure.

On all sides of pen, outside, bank with earth If it can be obtained, or with hay, straw, stalks. Transplant the plants from the window-box when the leaves are an inch long. Keep the earth moist with tepid water. The first rank heat of the manure should be allowed to pass off before the plants are set out. The sash should be raised every morning and the bed aired, and in the middle of the day the sash should be raised in sunny weather. Cover the sash at night with tarred paper and weight down with boards to prevent the wind from blowing it away. Maintain a summer heat. A little practice will teach how to regulate, raise or lower the sash. Lettuce is more hardy than some suppose. It will endure, for a short time, considerable heat and considerable cold.

Later, start field-plants in the bed, and when these are transplanted, plant cucumbers in the bed and let them "riot" in it GEORGE APPLETON. all summer.

SUNFLOWERS.

I raise the large Russian sunflowers every year. I plant them three feet apart each way and thin to one stalk in the hill. When they are in bloom I strip hill. When they are in bloom I strip off the leaves and give them to the cows and horses. The heads will grow larger. I leave a few leaves near the head. When they get ripe I cut off the heads and take a piece of lath twenty inches long and whip off the best seeds and let the hens pick the rest. The seed is good for horses. It makes them slick. I take two bushels of oats to one of sunflowers and get them ground together. Three quarts twice a day is enough. Three quarts twice a day is enough.

Ira, N. Y. S. N. G.

Cause of Rheumatism

lactic acid, is believed by physicians to be the cause of rheumatism. Accumulating in the blood, it attacks the fibrous tissues in the joints, and causes agonizing pains. What is needed is a remedy to neutralize the acid, and to so invigorate the kidneys and liver that all waste will be carried off. We can honestly recommend Hood's Sarsaparilla for these purposes. It has cured others of rhenmatism and it will cure you.

Hood's Sarsaparilla

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100 Doses One Dollar

Our Farm.

NOTES FROM MY HOME GARDEN.

BY JOSEPH.

USHROOM GROWING .- It is only in obedience to the call of subscribers that I say a word on mushroom growing. My heart is not in it. When handling the subject of tomatoes, or melons, or onions, or many other fine things in the garden that I really like, my enthusiasm is easily awakened: But I am not fond of mushroom flavor, consequently do not like to say much about them. There are a great many people who enjoy a dish of mushrooms, however, and for the benefit of these I will tell how a supply may be easily grown in any ordinary, damp cellar, with an even temperature, ranging from 50° to 70° Fahrenheit. The best time for action is from September far into the winter. The proceeding is simple and the requisites are few.

Take fresh horse droppings-clear droppings, no long litter-and mix them with one third their bulk of loam, or better, finely cut up sods from an old pasture. This mixture is put in a heap to heat and worked over a number of times, even as often as once a day, until the first violent heat has nearly subsided. Now select the place for your bed. It may be made directly upon the ground or upon a shelf, and should be four feet wide and of any length desired. Spread out an even layer of the prepared manure mixture and beat it down firmly with a wooden mallet. Next spread another layer on the first, beating down as before and repeating, if necessary, so the bed will be about ten inches in thickness when finished.

The mass soon comes to a heat again. Insert a thermometer down into the center of the mass and allow the first violent heat to subside until the temperature is reduced to 85° or 90°. Of course the spawn should have been procured by this time. All seedsmen keep it iu stock, usually in brick form. Break the bricks into pieces of the size of a small egg; make holes all over the bed about two inches deep and ten or twelve inches apart each way, and then drop a piece of spawn (or two if very small) into each hole. These holes are then filled with the manure mixture, after which the whole bed must again be beaten down smoothly and evenly and covered all over with two inches of fine loam, patted down with the back of a spade or shovel. The cellar should be reasonably dark; if too light, a covering of six inches of hay or straw may be put over the bed; or the light may be excluded by means of some covered frame placed over the bed. No watering will be necessary in a reasonably damp cellar; but if the latter is very dry, warm water should be applied occasionally by means of a fiue rose sprinkler. If the temperature is kept at 55° to 60°, the mushrooms will appear in from five to eight weeks and continue in bearing for some time.

OILED MUSLIN FOR HOT-BEDS .- I have frequently used frames covered with the oiled muslin (largely advertised and sold by one "Waterproofing Fiber Co.") in place of glass sash for hot-beds. Such covering will answer for hardy plants like onions, cabbage, lettuce, etc.; but the stuff soon rots, and, altogether, it is but a makeshift and greatly inferior to glass in every respect. The homemade oiled muslin, which I have also repeatedly tried for the same purpose, has not given much better results than the other, and my advice is to use regular hot-bed sash and don't bother with the oiled muslin if you can help it.

To prepare my oiled muslin covering. I made a simple, light frame or frames of sufficient size to cover the bed, and braced as needed. Common cheap muslin was tightly stretched over this and tacked on. Next I made a mixture of linseed oil and egg; I forget in what exact proportion. Two coats of this "paint" were applied to the upper surface of the muslin, the second, of course, after the first had become thoroughly dry. If anyone among our readers knows a better way of preparing muslin for these purposes, let him tell us all about it.

BUCKWHEAT HULLS .- I would like to tell E. B., of Moravia, N. Y., what exact amount of plant food is contained in buckwheat hulls, but I cannot do it,

I do not think, however, that the amount is very large. What I would do with the stuff if I had it is to let cattle pick it over, and then use what they refuse to eat for bedding, especially for the absorption of liquids in stables and yard.

BONE AND HORN AND HOOF MEAL .- A. M. S., of Wheeling, W. Va., wants information on the relative value of bone meal and hoof and horn meal for fertilizing purposes. Bone meal is a very superior and usually a very cheap phosphatic manure, having about 221/2 per cent of phosphoric acid and 3 to 4 per cent of nitrogen; no potash. Its value, on the basis of the latest schedule of retail rates, is very near \$40 a ton, while it usually can be bought for little more than \$30 a ton. Hoof and horn meal is emphatically a nitrogenous manure, having about 141/2 per cent of nitrogen and 21/4 per cent of phosphoric acid; no potash, either. The nitrogen is not readily available, however, and probably not worth more than ten cents a pound, if as much. The nominal value of this meal exceeds \$30 per ton; but I do not think I should be willing to pay that price for it. For general purposes I would supplement either of the two substances with applications of potash in some form.

Orchard and Small Fruits.

SWEATING OF APPLES AND VEGETABLES.

BY SAMUEL B. GREEN.

All growers of experience know of the dauger of piling up fruit or vegetables in large masses in a close cellar or pit, though but few know the physiology of the thing, although they may successfully avoid any loss from this cause. In the following article I have sought to give a botanical study of the subject:

It is well known by all botanists that watery vapor exists in the cavities of plants in larger or smaller proportion and is exhaled in abundance from the stomata (breathing pores). In the living plant this vapor is never quiescent, but is thrown off during the life of plants. The stomata are most abundant in the newer parts of plants above ground, and yet there are more or less of them on all exterior living tissues of highly organized plants, even on their roots. It must be borne in mind, too, that when apples are picked, or potatoes, onions, etc., taken from the soil, they are still alive and the cells and cell contents are active and coutinue so indefinitely. This activity is greatest in a warm atmosphere, while in a cold medium it may become nearly or entirely quiescent. Again, this activity is increased after changes from a cold to a warm temperature, for by such changes the air in the cells expands and sap or watery vapor may be forced out through the skin. Such being the case, a pile of beets or other roots tightly covered with earth in a close cellar, or apples at once picked and barreled up, may become covered with moisture because the watery vapor which is thrown off soon saturates the enclosed air, and the excess is condensed on the fruit or root. This would be most apparent if the roots were gathered in quite cold weather (when little growth is taking place and consequently the air of the cells not rarified), and were then put in close pits which would be warmer than the roots. In such a case the air enclosed would expand; cell action would be very rapid and would engender more heat, which would not be reduced by evaporation, as it would be if the roots were exposed to the open air or were ventilated.

In this connection I may be permitted to state that much of the water found on plants in the form of drops, and which is generally supposed to have come from the atmosphere, really is excreted by the plants themselves. This will account for the fact that active-growing plants of red clover or cabbage, for instance, will have more dew on their leaves than ripe standing wheat; the former having their cells very active, while in the nearly ripe wheat they are nearly dead.

INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

Salt-Marsh Hay for Mulch.-M. N. W. Martinez, Cal., asks if salt-marsb hay is a good mulch for strawberries. Salt hay is most excellent material for a mulch, as it is free from seeds, and the small amount of salt it contains ls not at all injurious. It is used in large quantities all along tide-water for mulching strawberries.

Propagating the Persimmon.-J. S. W.

pyras Kaki) may be propagated from seed, hut it does not come true to name. Commercially it is propagated by grafting it on seedlings of our native persimmon (Diospyras Virginica) The seedlings should be grafted near the snrface of the ground, when one year old. It is sometimes budded; but this method is notgenerally so successful as grafting. Grafting may also be done in the winter in greenhouses on potted seedlings. It will undoubtedly grow well on its own seedlings; but the uative seedlings are preferred on account of their stronger growth.

Varieties of Apples for New York.-G. H. C., Little Falls, N. Y., asks if he would make a mistake by planting Delaware Winter, Sawyer, Salome, Wealthy, Wolf River and Pewaukee apples in the Mohawk river valley, instead of Baldwin, Kiug of Tomkins County, Rhode Island Greening and Gravenstein. I think it would certainly be a mistake to plant many of the new kinds. You would be much safer in depending on the old varieties for general planting. The Pewaukee I do not think any addition to the list of apples for your section, and would not plant it; while the Wealthy is one of the most beautiful apples in the world and bears very young and constantly; it is also very hardy. Delaware Winter and Sawyer are said to be the same and not very valuable. It is not well to lose sight of the old established kinds in planting for profit. With the exception of the Newtown Pippin. which cannot be generally grown at a profit, there is perhaps no apple in the market that is more sought after than first-class King of Tomkins County, and by careful culture (by which I mean heavy manuring when fruiting, and syringing to protect from insects) they can be obtained of good grade almost every year. The Baldwin, Gravenstein aud Rhode Island Greening, too, are more than holding their own against newly-introduced varieties.

Fertilizers for Strawberries.-We have received inquiries regarding the best varieties to use to fertilize (pollenize is a better word) the Haverland and Bubach, No. 5 strawberries. These pistillate varieties are of very promising value, and it is important that the best bisexual varieties for profit be grown amongst thein. I thluk that perhaps the Jessie would be most profitable for this purpose in sections where it does well, as in most of Indiana and Ohio. Sucker State would perhaps be most valuable in southern and central Illinois, while the Countess (Downer's Prolific) may do best further north. We should be glad to publish the experience of practical growers on this subject.

Grafting Crab Apple Trees.—W. S. C., Council Bluffs, Iowa, writes: "I have a number of crab apple trees. I wish to graft them into apple trees. Can I do it, and what varieties are best adapted for it?"

REPLY:-If the trees are young, it may be done, but nnder the best circumstances the results are not apt to be gratifying. The sclon and stock will unite and grow vigorously, but will not form long-lived trees. If the trees are old or very large, it will not pay to try the experlment; and it would be much better to plant ont some good, young, thrifty trees of good kinds. The kinds it would be well to try, if you decide to graft, are Duchess of Oldenburgh, Tallman's Sweet, Wealthy and Willow TO THE PERSON

Fig Bloom.—S. C. A., Tampa, Florida, writes: "Where is the blossom of the fig? I have heard that all plants have flowers, but have often watched the figs grow and they do not come from a flower at all."

REPDY:-The fig does not come from one flower, nor in fact is it a flower at all; but it is a group, or inflorescence of flowers growing in a hollow stem (receptacle). The part on which the flower rests is a modified portion of the flower stalk, and varies much in form in different plants. In the corn the recepatacle is the cob, and each seed, with its separate silk, forms a separate flower. In the strawherry lt is the part meat, and corresponds to the cob in corn, that is, the seeds of the strawberry rest on the cob, but the cob is juicy and desirable. In the the cobin corn is he wers, some of which 'awers, some of which a great many separate a are pistulate, while others are red inside out. is, nearly like an ear of corn turn through At the top of all figs is a liole, which insects may pass to distribute pollen. This hole can be seen in any dry h, but better in a fresh one. Perbaps I need not say that the cob of corn only bears one kind of flower (plstulate), and that the stamiuate flowers are found in the tassel,

flowers are found in the tassel.

Rest Varieties of Plums.—D. Y., Sears, Mich., writes: "Will you kliidly tell me if the Hudson Gage plum and the Imperial Offoman plum are hardy varieties and would do well in uorthern Michigan. Also, if their season of ripening is the first of August. The Lombard, Quackenboss, Yellow Egg, etc., do well here. I have set about four hundred Lombards, and want something earlier and something later. What would you recommend? I have twenty-one varieties growing, but only a few of a kind, except Lombard. Reine Claude de Bavay has been recommended to me as a good late plum, and Moon's Arctic as a long keeper. Coe's Golden Drop is also recommended as a late plum, but I hardly know whether it would be well to plant many yellow plums for market. What can you say for Shipper's Pride and Genil? Are they as recommended? Niagara is sald to be better than Bradshaw—a more prolific variety. I would like your opinion on these varieties, also ou the Marlana and Weaver. I have a large number of stocks to graft or bud, and want the best varieties; and as those I have set have not fruited, except the Lombards, I am uot able to decide for myself."

REPLY:—Hudson Gage and Imperial Ottoman are old well-known the set have not fruited.

simply because I do not know it myself. Halsey, Oregon. The foreign persimmon (Dios- man are old, well-known plums. They ripen REPLY:-Hudson Gage and Imperial Otto-

very early (from two to three weeks before the Lombard), but are not so generally reliable as the Lombard and some others. On account of their earlluess they may be valuable for you. They are as hardy as the Lombard, aud the Imperial Ottoman, I think hardier. Reine Claude de Bavay is a very excellent, productive, late plum, a vigorous grower and very popular as a market sort. Moon's Arctic is very hardy; has done well in northern Maine, and is generally popular wherever grown; it is also a good keeper. Coe's Golden Drop, a fine, late, attractive plnm that sells readily. Shipper's Pride I think well of, though it has undoubtedly heen over-praised, and does not transcend all our old varietles. Genii is a very profitable early market plum, and much sought after. Niagara may be better thau Bradshaw, but I have reports from several localities where it is looked upon as being the same thing. Mariaua is earlier and smaller than Wild Goose, and grows well for cuttings; do not think very highly of it for fruit, but as a stock it is excellent. Weaver is very hardy (of Prunus Americana type), generally a prolific bearer, a free-stone, ripens in September, but not of any great value where the older kinds can be grown; I do not think it so reliable as De Soto, which is of the same type; neither are worthy of much attention from you if you can grow Lombard, Moon's Arctic, etc.

INSECTS ON FRUIT TREES

Can he destroyed by spraying with London Porple, Diseases of grape vines can be checked by spraying with Bordeaux mixture. The Field Force Pump Co., of Lockport, N. Y., manufacture the Knapsack Sprayer and a full line of Orchard and Vineyard Outfits. Write them for circulars and directions.

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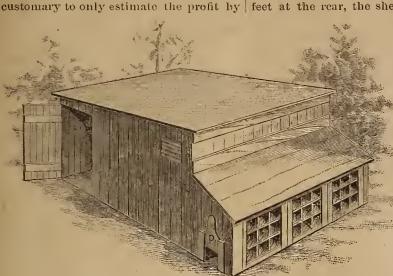
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Our Farm.

THE POULTRY YARD. Conducted by P. H. Jacobs, Hammonton, New Jersey.

THE EXPENSES SHOULD BE BOOKED.

It is only right and proper that all sums expended for the support of the hens should be charged against them, whether they are kept simply to supply the family with eggs or to ship to market, and the new year is the time for beginning the keeping of a book account in order to know all the cost. On the other side the heu must be credited with all eggs and chicks sold, and with all poultry and eggs nsed in the family, as well as with all eggs used for incubation. It is sometimes



POULTRY-HOUSE-Fig. 1.

the number of eggs sold; but the eggs used and ingress holes from main room to the in the family are just as much a portion of the proceeds of the hens as are the eggs that are sold, and it is unfair to the flock to withhold that credit from them. If a strict record be kept of all the poultry and eggs consumed at home, it will be a matter of surprise, at the end of the year, to notice how much the flock has contributed to the table. A small flock gives better results than a large one, for a family, because the table scraps and wasto material largely contribute to the supply of food, thereby lessening expenses.

CHANGING EGGS.

One of the practices among farmers is changing eggs with each other in order to avoid in-breeding. In the first place, the eggs themselves are a risk, as no one can tell what they may produce, perhaps no two chicks from them being alike and no breeding of value in the stock. In the next place, the changing of eggs makes the flocks in a community all of one blood, so that really nothing can be gained by the practice after it has been persisted in for a while. Get pure-bred males from some source, or eggs from some breeder of pure breeds. If you must cross, do it correctly. Do not waste time in the attempt to better your flock by changing eggs for some nondescript stock that has no merit uor possesses any advantage. To improve a flock, oue should know the kind of stock he is using, and what can be expected from it. The changing of eggs is a practice usually pursued by those who do not know the value of the breeds, and such persons should not be encouraged.

ROOSTS AND LARGE BREEDS.

We noticed a certain breeder of Brahmas provided no roosts for his flock, and we have found his plan to have some merits. The large breeds are liable to leg weakness, when fat, to injury in getting on or off the roosts, and to too much draught on the perches. When provided with a bedding of straw they escaped these difficulties and seemed to be less subject to ills and injuries. It is a point worth considering, and the plan of no roosts for the large breeds should be given a trial.

\$100 REWARD. \$100.

PROVIDING LIME FOR HENS.

The best way of providing lime is to put a lump of lime in the drinking vessol. Some of the lime will be dissolved in the water and thus drank by the liens. Lime will also assist in preventing the spread of roup through the agency of the water, and it sometimes aids in correcting bowel disorders. It is at least cheap, and will do no harm whether beneficial or uot; but we can safely assert that by keeping a small lump of lime in the water it will prove of great advantage.

POULTRY-HOUSE AND INTERIOR.

The poultry-house illustrated in this issue may be of any size, but as shown, the house is 10x13 feet, intended for 25 fowls. The front is 8 feet, slanting to 6 feet at the rear, the shed being 3x10 feet

(main part 10x10 feet). The shed is intended as a dustroom, aud for scratching in rough weather. The house may be boarded or built in any manuer, with tarred paper roof. In Fig. 2 is shown the interior, B being the feedbox; C, the grain-box; DD, the roosts; EE, the nests; A A A, the egress

shed; P, the ingress and egress hole from shed to the yard, and R, a ventilator, or lattice cover. The main room has a feed-box and water-box at each end, which may be removed at will. It requires not over 1,000 feet of boards and 200 feet of scantling to build the house. The illustration is so plain that an extended description is unnecessary.

COTTON-SEED MEAL.

Cotton-seed meal, about one gill a day for ten hens, mixed with the soft food, is an excellent addition to the ration, but occasionally it should be dropped and linseed meal substituted. The cotton-seed meal is very nitrogenous, and will largely aid in supplying that which may be lacking in a food that is almost wholly earbonaccous. It serves to assist in completing a ration more than to provide, of itself, a special food for poultry.

PROVIDE GRIT FOR THE HENS.

Whether broken flint, ground shells or in any other shape, the grit must now be supplied to the hens, as they cannot procuro it; for even if grit is plentiful it cannot be picked up by the fowls. It is essential that it be supplied in some shape.

stances swallowed for that purpose, and when they cannot procure the sharp, hard substances, the result is indigestion, disease and a failure to produce eggs. Do not omit the grit as a portion of the ration for hens.

CORRESPONDENCE.

A REMEDY FOR CROP-BOUND.-I should like to make known through the columns of FARM AND FIRESIDE, a valuable remedy for cropbound fowls, which is yeast. Sago, Ohio.

REMEDY FOR Lice.-I have tried several remedies recommended in your excellent paper

with partlal success, but the best remedy I can find is one I invented for perches. Pour spirits of turpentine along on the perches in the morning, and when it is time for the chickens to roost, the lice will be dead and the spirits of turpentine dispersed. Be sure to apply it in the morning, so it will not damage

the chicken's feet. Portland, Mich.

THE FARM AND FIRESIDE.

A YEAR'S RECORD .- On December 1, 1889, 1 had 134 hens and some pullets raised from I received 14,171 eggs. I sold 1,108 dozens and used 50 dozens. I set 281 eggs, batched 214 chicks, and lost 30 chicks. I sold 90 hens and chickens, and ate 50 hens and chicks. I got 50 bushels of hen manure. The feed I gave them was corn, 4,600 pounds, meal, 2,300 pounds, bran, 1,050, 35 bushels of buckwheat, 4 bushels of wheat and 2 bushels of barley. For eggs I received \$209.95, for chickeus \$31.21. Adding to this the value of eggs and chickens used, the total income was \$287.41, and the total expenses were \$109.45. The net cash iucome, after deducting all expenses and what was used in the family, is \$151.68, or \$12.64 per month. I reduced my flock December 1, 1890, to 135 and have commenced another year's account.

Clark's Summit, Pa.

REPLY:-We know of no one who buys them, but they are sold by commission merchants, and would no doubt be bought by those who

Mating Ducks.—G. G. B., Wheelersburg, Ohio., writes: "Do ducks mate the same as geese, or will one drake do for four or five ducks?"

REPLY:—It is usual to allow one drake with five ducks, but it is better to have only four ducks with one drake.

like it?"
REPLY:—We give plans for our readers to make their own, nothing being patented. We know of no one who makes a business of manufacturing them, as we do not infringe on any of the plaus of manufacturers.

of the plaus of manufacturers.

Roup.—S. P., Mumford, N. Y., writes:
"What is the cure for hens that seem to be dizzy, lose the use of their legs, are blind, and finally die?"

REPLY:—It may be roup, caused by top draughts, or it may be that the male should be removed from the hens, he being large and fat. If roup, anoint eyes with a mixture of one part spirits of turpentine and four parts sweet oil, once a day, and give half a teaspoonful at the same time, as a dose.

Iudigestion.—N. S. F. Higgenery. Co.

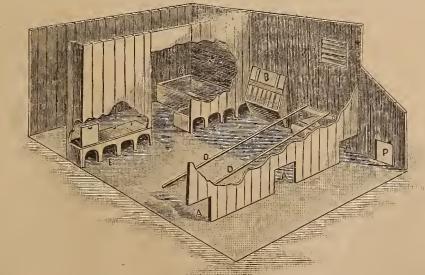
Indigestion.—N. S. F., Higganum, Conn., writes: "My pullets' combs turn pale; they droop and die. I opeued one and found the liver very much enlarged."

REPLY:—Probably the result of overfeeding and lack of grit. The pullets are no doubt very fat. The use of Douglass mixture or sus thur will also cause the difficulty. Feed only once a day, at night, and make the hens

INQUIRIES ANSWERED.

Peafowl Feathers.- Mrs. A. C., Olmsted, Ill., writes: "Please inform me where I can find sale for peafowl feathers."

Brooders.—S. F. S., Clark's Summit, Pa., writes: "In your December 1st issue you gave a plan of brooder. Where cau I buy one like it?"



POULTRY-HOUSE-FIG. 2.

and this duty is as important as the allowance of food. Some persons use ground oyster shells, which are excellent, but The readers of the FARM AND FIRESIDE will be pleased to learn that there is at least one dreaded disease that science has been able to cure in all its stages, and that is Catarrh. Hall's Catarrh Cure is the only positive cure now known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system, thereby destroying the foundation of the disease, and giving the patient strength by building up the constitution and assisting nature in doing its work. The proprietors have so much faith in its curative powers that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address F. J. CHENEY & CO., Toledo, Ohio.

scratch for their food until they improve, theu feed twice a day.

The Best Breeds.—J. R. G., Brownsville, Tenn., writes: "1. How many hens should be with one male? 2. Which is the best breed for laying? 3. Which is the best breed for market? 4. Which two, crossed, are best for laying and market?"

REPLY:—1. About ten. 2. Leghorns and Minorcas. 3. Wyandottes and Plymouth Rocks. 4. Probably the Brown Leghorn and Wyandotte.

Chieks—L. B. R. Faton Banids.

Wyandotte.

Guinea Chicks.—L. B. R., Eaton Rapids, Mich., writes: "Please give directions for raising the guinea fowl. Neighbors who have tried lose all the chicks when they are two or three weeks old."

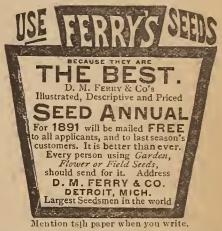
REPLY:—The cause of loss of young guineas is probably due to the large, gray lice on the heads. They should be hatched by hens, kept warm and dry until well feathered, and fed four or five times a day on a variety of food, including a little meat. The lice go from the hens to the chicks.

MAULE'S SEEDS LEAD ALL.

Onr Catalogue for 1891 is pronounced absolutely the best seed and plant book issued; printed in good legible type, on good paper, it excites the admiration of all. 664 varieties of Vegetables, Flowers, Flowering Plauts, Small Fruits, Fruit- and Nut-bearing Trees, etc., are beautifully illustrated, as many as 38 of them being in colors. This catalogue is mailed free to all who ordered in 1890; but as the postage on the book alone is five cents, we must ask all others who are not customers, desiring a copy, to send us twenty-five cents in stamps for it; and in addition to sending our catalogue, we will also mail you, without extra charge, a packet of the wonderful BUSH LIMA BEANS, THE MOST VALUABLE VEGE-TABLE NOVELTY INTRODUCED IN YEARS; AND A PACKET OF THE NEW MARGUERITE CARNATION, THE FLORAL WONDER OF 1891. These two packets of seeds are worth 25 cents; so it virtually means the same thing as mailing our catalogue free to all who answer this advertisement. Address

WM. HENRY MAULE, PHILADELPHIA, PA.

Mention this paper when you write



100 PER CENT PROFIT GUARANTEED

To all who intend to plant Fruit and Ornamental Trees, Shrubs, Vincs, Roses, etc., if you will give me your name and P. O. address on postal card directed to J. Hammond, Nurseryman, Geneva, N.Y. Mention this paper when you write.

The Best Brooder Ever invented for raising chicks; only \$5. Address G. S. SINGER, Cardington, Ohio, for circular.

INCUBATORS. Bates' Egyptian Incubators. Send for circulars. JOSEPH I. BATES, Weymonth, Mass.

OULTRY for PROFIT.
or 15 cts. if you mention this paper, FARM-POULTRY, a 20 page magazine, six months.
Sample copy free. I.S. JOHNSON & CO., BOSTOU, Mass.

Simple, Perfect and Self-Regulating. Hundreds in successful operation Guaranteed to hatcha larger percentage of fertile eggs at less cost than any other batcher, send Se. for Illus Catalogue hatcher. Send 6c. for Illus Catalogue. Circulars free. CEO.H.STAHL. QUINCY, ILL.

Nothing On Earth Will LIKE

Sheridan's Condition Powder!

It is absolutely pure. Highly concentrated. In quantity it costs less than a tenth of a ceut a day. Strictly a medicine. Prevents and cures all diseases. Good for young chicks. Worth more than gold when hens 3loult. "One large can saved me \$40, send six for \$5 to prevent roup," says a customer. If you can't get it send us 50 cents for two packs; five \$1. A 214 pound can \$1.20 post-paid; 6 cans \$5, express paid. "THE BEST POULTRY PAPER," sample copy free, Poultry Raising Guide free with \$1 orders or more, 1. S. JOHNSON & Co., Boston, Mass.

A Saw Mill for light power at a low price was introduced first by us. Many are in use; many are wanted. If you want one remember that

\$188.00—A Saw Mill For—\$200.00

are our figures, and that no better, substantial, durable small mill can be found. Address the old stand,

The Lane & Bodley Co.

ESTABLISHED 1851.

CINCINNATI, O.

Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several

FROM CORRESPONDENCE. manual ma

FROM COLORADO. -G. A. S., writing from San Jose, California, tells of people there making from \$300 to \$500 off of one acre. Well, we don't brag ont here in Colorado but there are men living here in Boulder who have sold grapes off of one acre to the amount of \$1,500 to \$2,000 in a single season. Boulder, Colorado.

FROM WASHINGTON .- The blggest crop in this country is timber, and hemlock comprises a large amount of it. Hemlock is counted a cipher here, unless for stove-wood; and few use it even for that. There is hut little land here under cultivation. The hottom land produces good crops. The land is very expeusive to clear. Most everything is high. Wheat, in the Palouse country (about 200 miles from here), is worth 45 cents per bushel, and here it canuot he bought, often, for 2 ceuts per pound. Nearly all freights from the East advanced ahout 16 cents per 100 pounds, but farm machinery \$1.30 per 100 pounds. There has been a great deal of railroad building between here and the Sound, but the rain has stopped some and combination of railroads others. The farmers won't arouse thoroughly until the halter is drawn tighter. Melbourne, Wash.

FROM SOUTH DAKOTA.—Hill City is a booming town situated in the center of the tin mining district, and is the headquarters of the Harney Peak Tin Mining Company. The B. & M. railroad has just been completed through the town, connecting it with Deadwood, forty miles away. The Black Hills has been a great gold mining district, and is yet in the North Hills. Now tin is the leading ore in the South Hills aud is cansing much excitement. But the Indians are causing more excitement just at present. The soldiers are trying to disarm them and have had some fights. The towns in and ahout the Hills have organized militia for use in emergencies. There is grand scenery here in the Hills, but it is not much of au agricultural district. Wages are good but the cost of living is high.

Hill City, South Dakota.

FROM MISSOURI.-lu Maries county we have had good crops for many years. Wheat yields from 12 to 25 hushels per acre; oats, 25 to 40; corn 30 to 50. Prices of grain rauge as follows: Wheat, \$1; oats, 50 cents; corn, 45 cents. All kinds of fruit do well here. This is one of the richest and best counties in the state for farming and stock raising. Wages for hands on a farm range from \$12 to \$18 per month during the summer months. The people are robust aud healthy. Maries county is watered by the Gascouade river and many other small streams. We have plenty of good drinking water here, many fine springs. Vienna, our county seat, is a very five town. Vichy and Grove Dale are also nice towns. Poultry and eggs are largely raised here. Eggs are selling at from 20 to 221/2 cents per dozen; butter, 15 cents per pound. We have many churches of all kinds; namely, Methodist, Christiau, Catholic, Presbyterian, etc. Land ranges in price from \$5 to \$12 per acre. Horses and mnles are in very good demand here. Horses are selling at from \$60 to \$125; mares. \$75 to \$150; mules, \$85 to \$150. The best time to come out here is in the fall or in the early spring. Lanes Prairie, Mo. A. A. N.

FROM WASHINGTON .- Do not put too much confidence in new town sites and land booms in what you suppose to be unsettled countries. Any man who has a farm in the state of Ohio. where he can make a comfortable, living, had better stay there. That is my native state. My father left there when I was seventeeu years old, in 1843. I have been looking for the happy land of Canaan ever since and have not yet found it. All countries have advantages and drawbacks. I would much rather live here than in the state of Ohio, as I am already here and came in an early day. 'But the chances will be against the man that comes to-day if he expects to find government land to take up. The principal graius raised in this country are wheat, now worth 42 cents per bushel; oats, \$1.15 per cental; barley 90 cents per cental. The Farmers' Alllance Is well represented here; but as an Individual member I can hardly endorse the platform adopted at Ocala. The first plank is badly cracked and is not in harmony with other parts. Be careful brother farmers, and do not get things mixed: I fear the document was not well considered Waverly, Washington.

FROM VIRGINIA .- Albemarle county lies in Piedmont, Virginia. It is quartered by two great railroads, the C. & O. cuttlng it ln two near the center from east to west, and the Richmond and Danville running from north to south: they cross each other at Charlottesville, our county seat, a city with a population of 8,000. It is growing rapidly, and Is destined soon to be a very Important place. It has street cars, electric lights and one of the very best water supplies in the state. Its educational facilities are unsurpassed. The University of Virginia is located here, and there are a number of schools of high grade. Our soll is of a red color, and well adapted to wheat, corn, oats, tobacco and potatoes. All klnds of fruit flourish here; it's the home of the Albemarle plppin, which always commands

a high price. Some of our farmers got as high as \$7 per barrel for them last season, and none sold for less than \$4 and \$5. I don't know of any better investment than money put iuto good pippln land. Good laud can be bought for that purpose for from \$20 to \$30 per acre. We have rich deposits of iron and lead, slate and soapstone. The slate aud soapstone are being extensively worked; both are of the very best quality, and in sufficient quantity to last the world for a thousand years. The only slate peucils made in the United States are made in this county. Our climate is excellent. The thermometer ranges from 20° np to 90°, and seldom ever above or below these figures. We have, in short, the very best of everything, aud extend a cordial invitation to all good people who wish to make a change to come and enjoy these good things with us. I have no axe to grind or land to sell. I have a little home that I have fixed to suit my taste, and don't wish to sell lt. J. N. L. Red Hill, Va.

FROM WISCONSIN .- Oconto county is on the west shore of Green Bay. It has been settled for about fifty years, but for about forty years there was not much farming done. It had, up to about ten years ago, been one of the heaviest lumbering countles in the state, aud about all the farmers did was to till a few acres, depending on the jobs they would get from the lumber firms in the winter. But since the timber is about all gone, we have turned our attention to tilling the soil. The soil is from the heaviest clay to the lightest sand. The county is well watered with two rivers and many living spring brooks. Good well water can he found by digging from fifteen to thirty feet. Two large railroads ruu through the county-the Chicago and Northwestern and Chicago, Milwaukee and St. Paul. Each of the companies have over 8,000 miles of track running through six and seven different states. We have four large saw-mills in the county which cut from ten to fifteen million feet of lumber every year, besides a number of smaller mills. The logs for the larger mills are cut and hanked on the rivers in the winter, in the extreme northern part of the county; and some of the logs are floated down the rivers for over one hundred miles. Every farmer who has a good team and wants to work in the winter can get work in the lumber camps at good wages-from \$50 to \$75 per month-and the lumber firms furnish sleds and board for man and team. Crops were good last year, and we always get good prices for what we raise, as we have a large mlning region north of ns. Iron monutain is only about sixty miles away, where is worked one of the largest iron mines in the world-the Chapin mine. Wages for farm hauds are from \$20 to \$25 a month. We have plenty of good land here for sale, close to good schools, that can be bought at from \$5 to \$10 per acre, on loug time. I have lived here twenty-one years and have never seen a general failure of crops. Our county is out of debt and has money in the treasury. For those that want to get a good home on small capital, and are willing to work, this is the county. We have no malarial diseases here ; have never heard of the fever and ague. We have good schools and churches and good D. B. B. neighbors. Abrams, Wis.

FROM SOUTHERN OREGON. - Antumn was long and bright last season; there was hardly rain enough, until now, to enable the farmer to put in his small grain. Our rains are not as many suppose, disagreeable; there is no blow nor bluster, but simply a sleepy, drizzling, steady, persistent, copious downponr for two or three days, theu bright sunshine. So far, frosty mornings have prevailed since October 15th. Rainy weather Is always warm. Up to date, no snow has fallen save on the mountain tops. We do not anticipate much snow this season. Stock on the ranges are in good condition, and until snow comes no feeding will be required. High up on the mountains the grass is very fine. A typical Southern Oregon winter will help us materially, as hay is not at all plentiful, owing to late sowing last spring, followed by a dry season. We made no money last harvest on hay and grain. Dull times followed as a matter of course. When the farmer fails other occupations suffer. Our fruits were in good demand, and many boxes of "big, red apples," delighted both buyer and seller. Our apples fairly jumped Into fame this year. Many boxes were distributed at Washington hy our representatives in Congress, and no better advertising card could have been issued. This immediate vicinity furnished some of the finest fruits shipped from the state. This demonstrates the fact that foothlll lands are the best orchard sites. These lands produce apples, prunes or pears that will bring more than enough over the price of valley apples to pay the extra cost of transportation. These lands are to be had yet for a low figure, many being open to homestead or pre-emption. Here is an opportunity for many families of small means to obtain homes. These lands will produce good crops of hay and grain, and their natural heauties make them desirable. A number of pushing settlers are desired; the lazy, thicking, harping, ne'er-do-well are not in demand. If you have true grit, with the means to live for a year, you need not fear to locate on one of these foothill claims. The signs of the tlines are that we are entering upon a season of prosperity. We shall gladly hall lt.

Spikenard, Oregon.

TO PROVE the SUPERIOR QUALITY of Finest Flowers 26 cts. together with our complete FOR FOR ANNUAL for 1891. CROZY'S CANNAS -New Large Flowering, Ever-blooming Dwarf French Cannas, with immense clusters of magnificent flowers, as richly colored as Orchids, and more profuse flowering than Gladioli. See colored plate in Catalogue and illustration herewith. Neat, dwarf growth, with handsome foliage. They bear their beantiful, large flowers, of many colors, all summer, the first year from seed. COLDEN CATE POPPIES. A grand non-elly. Entirely imique in wondrous variety and brilliancy of bloom; myriads of most gorgeous flowers of every conceivable shade. FRINCED STAR PHLOX. An odd novelty of surpassing beauty; 40 varieties of elegantly edged and fringed flowers of star-like form. NEW FANCY CERMAN PANSIES.
Special selection of only the brightest and best, superbly spotted and stained, striped and margined, Imperial Prize Pansies, of striking beauty. Flowers of perfect form and large size. ECKFORD'S NEWEST SWEET PEAS, Embracing the latest novelties, largest and most beautiful named varieties in superb mixture. Never before equaled. Pkt. 10 cts.; oz., 20 cts.

For 26 cts. (13 two-cent stamps) we FIVE FINEST NOVELTIES with full directions for culture printed on each packet. For I you do not want all of these seeds, you can select any Three Varieties for 16 cts. If you want any other Seeds, ask for

BURPEE'S FARM ANNUAL FOR 1891, With colored plates painted BEST SEEDS from nature, tells all about the including RARE NOVELTIES, which cannot be had elsewh

to get Valuable Premiums, including MRS. RORER'S NEW BOOK, justout, FREE!

W. ATLEE BURPEE & CO. PHILADELPHIA, PA. When you write, be sure to say you saw this advertisement in Farm and Fireside.

HARDY DAY-BLOOMING MOON FLOWER.
Grows from bulbs. Lives out all winter. Increases in size and beauty each year. Blooms night and day. The flowers are six inches across, and very fragrant.

Most beautiful of this popular flower. Large size, deep red color. Hazel eye, edged with shining gold.

Z. HAAGEANA fl. pl. (GOLDEN CLOTH.)

A beautiful shrubby plant two feet high. A mass of bright golden flowers from June to December.

WILSON'S SEED AND PLANT CATALOGUE AND LIVE-STOCK

116 pages, 200 fine engravings, handsome colored plates, full of useful information. The most reliable catalogue and the published. All the 20 CENTS in postage stamps. A valuable catalogue published. All the 20 CENTS in postage stamps. A valuable collection of BULBS AND SEE above sent by mail for 20 CENTS address SAMUEL WILSON, MECHANICSVILLE, PA



FROM MINNESOTA.-Wright county is one of the richest in the state, in regard to soil and natural advautages. It is heavily timbered with maple, oak, ash, elm and basswood. It is also well watered by numerous lakes and creeks. The Crow river runs through it from west to east, and several saw and grist mills are located along its banks and run by water power. The surrounding country furnishes the material to work upon. Flour, lumber, boxes, staves and broom haudles are the principal articles produced. The county contains between 25,000 and 30,000 inhabitants. whose chief occupation is tilling the soil, which yields them a bountiful return for their labor. Wheat is the principal crop. Very little corn was raised a few years ago, but it is fast coming iuto general favor, aud more is growu each succeeding year. It produces an average of about 45 bushels per acre. Our crops the last season were excelleut, and everythiug hrought a good price. Wright county will need no outside aid, for I believe that people better sltuated and more prosperous would be hard to find. There are over 700 square miles in the county, with thirteen villages. Three railroads rnn from west to east, connecting us with Miuneapolls and St. Paul, where we find a ready market for our pork, beef, poultry, hutter and vegetables, only thirty miles distant from the producer, which, to the farmer, is worth considering. Intellectually, we are abreast of the times, and eastern people arc surprised, when they come among us, at the progress that has been made in such a short time. There are one hundred and twenty school districts, some of them independent, with graded rooms. There are 6,276 school children. Eight local newspapers supply the people with something to think about and the latest current news. Land is worth from \$10 to \$100 per acrc, according to location and improvements. The climate, for the last three years, has been all that could be desired, and no complaints have been heard. Some of our citizens have gone away to find a better place, and have, with few exceptions, come back, satisfied that Wright county and Minnesota cannot be excelled. Delano, Minn.

FROM ARIZONA .- We have the most delightful climate here of any in the United States, and the most favored of any for the invalid. So many have come here hefore it was too late

The Best of all Cauliflowers!

Is the sort now sent out for the first time, the Perfection. The Snowball, Gilt-edged and Extra-early Erfurt are all excellent sorts, but an extensive market gardener, who has raised these and all other sorts, believes that within three years the most enterprising market gardeners will have dropped these and be raising Perfection. Trial package, 25 cts.: per doz., 34. Seed catalogue FREE to every one.

JAMES J. H. GREGORY & SON, Marblehead Mass.

aud have built up strong and healthy. When I started from Baltimore, eleven years ago, I did not think I could hardly live six months, and now I am well aud strong. Our climate and country are just becoming known. Phœnix Is the capital. We have one rallroad connecting us with the Southern Pacific, a distance of only thirty-four miles. There is a bill pending now in Congress, granting us the privilege of taxing ourselves to build another road from here to the A. & P., by way of Preston. Thousands of acres of fruit will be set his winter and coming oranges and lemons have been tried, and successfully, too, nearly everybody owning land is going to plant them as fast as they are able. Our figs are pronounced the finest grown this side of Sulyrna, and have taken the premium at the mechanic's fair in San Francisco, experts pronouncing them superior to any raised in this country. Also in Chicago they were tested and the report is that they holieved them to be equal to the Smyrna fig. This is a fine country for a poor man, and still fluer for the mau who wishes to Invest. The pear, peach, plum, prune, pomegranate, apricot, quince, orange and lemon, figs and grapes grow to perfection. This is a great agricultural, mineral and stock-raising country. Herc, of course, we depend upon Irrigation. Persons with means can secure some good land yet that will double aud treble in value in the near future. Our legislature meets this month and our city will be quite lively. While I am writing I look out upon the flowers in full bloom in my yard and think often of my friends in Philadelphia and Baltimore enduring the cold and sleety weather so famous in that country. The fields are green and lovely uow.

Phanix, Arizona Ter.

HALSTEAD, KAN., Sept. 5, 1800.
I received the Peerless Atlas you mailed to me. Thanks for the same. It is actually splendid and excels many of the expensive atlases sold through the country.

J. S. KREHBIEL.

Queries.

READ THIS NOTICE. TO

Questions from regular subscribers of FARM AND FIRESIDE, and relating to matters of general interest, will be answered in these columns free of charge. Querists desiring immediate replies, or asking information npon matters of personal interest only, should enclose stamps for return postage. The full name and post-office address of the inquirer should accompany each query, in order that we may answer by mail if necessary. Queries must be received at least two weeks before the date of the issue in which the answer is expected. Queries should not be written on paper containing matters of business, and should be written on one side of the paper only.

Old Coins.—C. M. P. For price list of old coins send stamps to Wm. P Brown, 114 Nassau street, New York.

Manure Spreader.—E. A. T., Minter City, Miss. You can get a good manure spreader from the Newark Machine Company, Columbus Objects. bus, Ohio.

Book on Electro-Plating.—O. G. J. Owosso, Mich. You can get a book on electro-plating from David Williams, New York. Price,——.

Cheese Factory.—J. W. S., Cheboygan, Mich. Any large firm dealing in dairy supplies can furnish you plans of cheese factories, estimate of cost of buildings, apparatus, etc. Address D. H. Roe & Co., Chicago, Ill.

Address D. H. Roe & Co., Chicago, III.

Evaporator.—W. H. H., Brocton, N. Y. Candidly, we do not know which is the best evaporator, but we feel certain that you will make no mistake in buying the "Champion." It will pay you to buy a good evaporator for your "sugar bush." The superior article you can produce and the time you can save with a good evaporator will soon pay for it.

with a good evaporator will soon pay for it.

Oil Meal and Bran.—E. E. E., Poplar Bluff,
Mo., writes: "Is oil meal worth \$2 per cwt.
for cows and horses when bran and middlings
are worth \$1 per cwt.?"

REPLY:—The food value of linseed-oil meal
is not double that of mill-feed. Oil meal at
\$1.60 per cwt. is as cheap as mill-feed at \$1 per
ewt.

ewt.

Effect of the Moon on the Weather.—E.

S. Z., Naperville, Ill., asks: "Does the moon have any effect on the weather? During a drouth I have frequently heard it said that it will not rain until the moon changes. And further, does the moon cause the tides in the ocean?"

REPLY:—No, the moon does not control the weather in that way. It is constantly changing, instead of taking a jump once a week. The tides of the ocean are eaused by the mutual attraction of the earth and the moon; but it does not follow from that that the moon has control of the weather or the growth of vegetation.

Muck.—A. C. W., Hugo, Ill., writes: "During

wegetation.

Muck.—A. C. W., Hugo, Ill., writes: "During the late drouthsmall ponds in our river bottoms went dry, and the muck in them dried out so that for four to six feet deep it was as loose and fine as flour and elean of trash. Why would it not do to bring it to the garden—a stiff, cold elay—and spread it three or four Inches deep, let freeze all winter, and then dig and work it well into the soil next spring? Would it ruin the soil of the garden, or would it be advantageons?"

REPLY:—It would do very well, but it is not advisable to use too much new muck on land. Haul it to the barn and nse it for bedding or composting with stable manure. If applied directly to the land, nse plenty of lime to sweeten it.

Using Fresh Bones.—P. G., Oswego Falls,

Using Fresh Bones.—P. G., Oswego Falls, N. Y., gives a very excellent plan of using fresh bones. He says: "Get a small, hand bone-mill, aud grind them for ponltry feed. In this way yon get a valuable poultry food and a very rich fertilizer in their droppings. All the bone is not reduced to a fine powder in these small hand-mills; but by the time it has served the purpose of grit in a fowl's gizzard It must be in an acceptable condition for any erop to which the droppings are applied." This is a most excellent way of nsing a limited quantity of fresh bones. The best part of the bones go to the production of eggs and to the flesh and bone of poultry, in which form it is more valuable than as a fertilizer. But the droppings of well-fed poultry are worth much more than those of poorly-fed.

Paint-Brush—Ash Palings—Cross-Cut

more than those of poorly-fed.

Paint-Brush—Ash Palings—Cross-Cut Saws—Beehives—C. W. L., Pekin, Ind., writes: "Is there any way to elean a paint-brush after it has once been used?—How long will palings made of sound ash last?—Where is the best cross-cut saw manufactured?—Do not bees winter better and swarm less when pnt in hives twice as large as are generally used?"

IEPLY:—Clean the brush with turpentine.—The time ash palings will last depends on clrcumstances, such as the location of the fence, etc. They ought to last fifteen or more years.—We do not know which is the best cross-ent saw; that is a matter of opinion; some prefer one kind and some another. Disston & Co., Philadelphia, Pa., make as good as you can buy.—Bees do not whiter as well in a hive too large as in one the right size. There will be less swarming from a very large hive.

Bean Weevil.—G. H. H., Brazilton, Kan.

a hlve too large as in one the right size. There will be less swarming from a very large hive.

Beam Weevil.—G. H. H., Brazilton, Kan.
The bug you inquire about is the common pea or bean weevil (Bruchus Pisi). Shortly after the plants have flowered, the beetle lays her eggs singly in punctures on the tender pods. As soon as hatched, each little maggot bores through the pod and enters a seed. It feeds on the marrow of the pea, and hy the time it is full grown and changed into a winged inseet, not much more than the hull is left. It is a little remarkable that the germ of the seed is generally left untouched, and these "buggy" peas will often sprout and grow. No preventive method can be entirely successful unless generally adopted. Lateplanted peas generally escape. Put the infested seed in a tight box or barrel, with a small quantity of bi-sulphide of carbon in a saucer placed on them. Keep the box tightly closed for a day or two, until the fumes have been diffused all through the seed. Handle the drug carefully, as it is very volatile and explosive. Keeping the infested peas in boiling water for a short time will destroy the insects without injuring the peas.

Tar Roofing.—J. A. A., Stand, Iowa, writes: "What is it that roof-painters mix

Tar Roofing.—J. A. A., Stand, Iowa, writes: "What is it that roof-painters mix with coal tar to make the roof water and fire

powder; sift, and mix six quarts of this with one quart of salt; add two gallous of water; boll and skim. To five gallons of this add one pound of alum and one and one half pounds of copperas, slowly while boiling, one and one half pounds potash and four quarts of clean, sharp sand, and any color desired. Apply a thick coat with a brush, and you have a roof which no fire can Injure from the outside.

a roof which no fire can Injure from the outside.

Butter Not Coming.—L. A., Donglas, Kan., writes: "We are milking five cows, three of them fresh. We were making nice solid butter. About a month ago we turned them on the green wheat In the day-time, to a wheat straw stack at night. Right away the milk became harder to churn, the butter became mushy. Then It got so that it wouldn't gather at all. This week we churned six honrs and butter did not come. Is it on account of their having nothing else to eat but wheat? The milk gets frothy like shaving lather and stays so."

Reply:—The food is not suitable. If you cannot get good, bright corn fodder or clover hay, and must rely on the wheat straw, supplement it with a liberal ration of corn and oats ground together; two bushels of oats to one of corn. Give salt regularly. Soon after milking, while the milk is yet warm, pour into every five quarts of milk one quart of hot water. While the cream Is rising the milk should be kept at the proper temperature, 45-to 50. The cream may be allowed to ripen and turn slightly acid before churning. Then use a dairy thermometer and churn at the proper temperature, and the butter will come in less than thirty minutes.

Plowing Under Rye—Canada Thistles.

—D. B. B. Abrams. Wis., writes: "(1) Can I

temperature, and the butter will come in less than thirty minutes.

Plowing Under Rye—Canada Thistles.

—D. B. B., Abrams, Wis., writes: "(1) Can I plow under winter rye next spring and get any benefit by so doing and planting to corn or potatoes? It is sandy land. (2) Will Canada thistles that are cut with grass the first week in July produce seed that will grow or germinate? My neighbor has a large patch of thistles close to my farm that he cuts with his grass every year and feeds to his stock, then draws out the manure on his land; I have been fighting the pest for years and will not let one go to seed on my farm; but every year I find new thistles on different parts of my farm. I am successful ln killing them with salt. My method is not to cut them, but to step on each thistle with one foot and press with my whole weight and at the same time give my foot a twist which will crush the thistles so as to let the salt act on the juice. It is very easy to kill them the first year as the roots are then killed, but if let grow until the second year the roots will send up new thistles. The reason some farmers claim that salt will not kill thistles, is they do not watch for the new thistles that spring up from the roots of the old plants. Go over the ground once a month with a pail of salt and look for the young thistles. Do this for the first year and there will be few thistles to fight the second year.

REPLY:—(1) Yes. (2) They should be cut

year."
REPLY:—(I) Yes. (2) They should be eut before they bloom to make certain that uo seed will be formed. Some weeds eut in full bloom have vitality enough to perfect a few seeds. Your thistles must come from seed. It is possible that the seed may remain in the soil for two or three years until a favorable season before sprouting. Your method, if persistently followed, will get rid of them.

VETERINARY.

***Conducted by Dr. H. J. Detmers. *** Veterinarian of the Ohio Agricultural Experiment Station, and Professor of Veterinary Surgery in Ohio State University.

To regular subscribers of FARM AND FIRESIDE, answers will be given through these columns free of charge. Where an immediate reply by mail is desired, the applicant should enclose a fee of one dollar, otherwise no attention will be paid to such a request. Inquiries should always coutain the writer's full address, Queries must be received at least two weeks before the date of the issue in which the answer is expected. Subscribers may send their veterinary queries directly to Dr. H. J. Detmers, 35 King Avenue, Columbus, Ohio.

Swelled Hock Joint.—G. R. V., Steptoe, Wash. Bandage the swollen part with a bandage of woolen flanuel, but commence the bandaging at the hoof, and renew the bandage at least twice a day.

Actinomycosis.—C. G., Wallace, Canada. If the morbid process is in the bone, the case is incurable. The treatment given in the June number of 1889 only applies to cases in which the morbid process is not in, but outside of the bone, beneath the skin.

Diseased Tooth or Teeth.—J. B. B., Melbourne, Fla., writes: "My horse will not swallow hay or grass, but ehews it up, then spitis it ont. He eats grain and bran sparingly and is getting very weak and thin. Tongue, bowels, nrine and breath seem normal, and he has no other symptoms of disease except a hard swelling on the right muscle of his neek where it is attached to the base of the skull back of the ear."

ANSWER:—Examine the horse.

Answer:—Examine the horse's mouth and you will find one or more diseased molars, which must be extracted.

yon will find one or more diseased molars, which must be extracted.

*Umbilical Hernia.**—D. M. F., Mechanicstown, N. Y., writes: "I have a colt five menths old. When he was about two months old, there came a hard buneh just in front of his sheath, which in a short time broke and discharged and went away. About two weeks since another lump came, which is soft and I can press it in and feel a hole. The lump is about an inch and a half in diameter."

Answere:—The first swelling, which broke, it seems was a sore navel, and the present swelling undonbtedly is an umbilical hernia. As it is not very large and the colt is yonng yet, it may gradually disappear. If it does not, it is yet time enough next summer, or even later, to remove it by means of an operation.

Feeding Colt.—H. W. C., East Orange, N. J., writes: "(I) How much hay should I give daily to an eighteen-months-old colt? (2) How much corn, if any, at a feed? (3) What is the best food for them at that age, and how much should I give to make them grow well? (4) At what age do they generally commence to break young colts? (5) Is a two-year-old eolt too young to drive moderately, say three to five miles a day? My colt has an awful stomach on her, caused, I think, by the hay. I give her daily about nine pounds, at night only."

Answer:—(1) That depends upon the breed and size of the colt, upon the quality of the

Tar Roofing.—J. A. A., Stand, Iowa, writes: "What is it that roof-painters mix with coal tar to make the roof water and fire proof?"

REPLY:—The following extract from "What Everyone Should Know," for sale at this office, will auswer your question: "Then spread on several coatings of the following eomposition, previously boiled, stirred and inlxed: Good elean tar, eight gallons; Roman cement, two gallons (or in its place very fine, clean sand may be used); resin, five pounds; tallow, three pounds; apply hot; and let a hand follow and sift on sharp grit sand, pressing it into the tar composition. If wished fire-proof, go over the above with the follow-ling preparation: Slake stone lime nudef cover with hot water tillit falls into a fine,

Nail in the Foot.—W. H. J., Altmas, Cal. As the case is now, provided the animal is not yet an incurable cripple, the best you can do is: to cut away all loose horn; to make a thorough examination of the extent of the destruction; to dress the sore and damaged parts until a healthy reaction sets in, twice a day, with absorbent cotton saturated with a solution of corrosive sublimate (one part) in distilled water (1,000 parts), or nearly one grain to every two onnees of water; and to protect the sore and raw surfaces by judicious bandaging. After the lameness has disappeared, and new horn is reproduced again, some resinous tincture (tincture of aloes will answer) may be used instead of the corrosive sublimate solution; and then a shoe with a cover of sheet Iron, as described in a former number, may be put on. With such a shoe, the horse theu will soon be able to work.

Rinachitis.—G. J., Jackson, Cal., writes:

Rhachitis.—G. J., Jackson, Cal., writes: "Can you tell me what is the unatter with my coit? Some few weeks since one of her hind legs became weak at the pastern joint, accompanied by an enlargement of the lower part of the upper pasteru bone. The other leg begins to show the same symptoms. The colt is six months old, of trotting stock, but rearred by hand. Can you tell me the cause of her weakness and what treatment you would recome

months old, of trotting stock, but reared by hand. Can you tell me the cause of her weakness and what treatment you would recommend?"

Answer:—The cause probably consists in unsuitable food, food too poor in lime salts, and wanting, perhaps, other necessary constituents. Since the colt is six months old and can eat grain, I advise you to feed plenty of oats, some bran, good clover hay, etc.; and give good well water, or at any rate good hard water to drink. The disease seems to be rhachitis. Hay grown on irrigated fields is, as a rule, not sultable.

May be Tuberrulosis.—B. C. T., Fresuo.

rhachitis. Hay grown on irrigated fields is, as a rule, not sultable.

May be Tuberculosis.—B. C. T., Frcsuo, Cal., writes: "I have a cow that has a hacking cough, especially so after I feed her. If she lies down soon after being fed, she will breathe very hard, and acts as though she could not get her breath. She seems well in every other way, except that she has a few Iumps on her back, about the size of a marble; but they have not broken as yet. I feed her all the alfalfa hay she will cat, and about two quarts of bran at each meal. She has a good appetite, and gives a good quantity of milk. I have a good, clean stable, and have her tied with a long rope so she can have out-door exercise at any time."

Answer:—The hacking cough is a little suspicious, and possibly may be due to tuberchois. An examination by a competent person is necessary. As to the hard breathing, it may be due to the same cause as the cough, but it is also possible that it is simply caused by the too voluminous contents of the stomach. The left side of a cow, partleularly of one that gets away with a good deal of food, is always fuller, at least in cows not with calf, because the large, first stomach has its place on the left side.

An Abseess in the Mannuary Glands.—

left side.

the large, first stomach has its place on the left side.

An Abseess in the Mammary Glands.—
J. H. H., Arlington, S. Dak., writes: "I have a three-year-old mare which had a colt last summer. In July the colt got the distemper so bad that it could not suck. The mare's bag swelled, in spite of our milking, and broke, and pus began to run. We have weaned the colt and dried the mare, but still the pus keeps running out of an opening at the base of outside of left half of bag. Everything we have done so far seems to avail nothing."

Answer:—To what degree of health the diseased half of the mammary gland can be restored depends upon the extent of destruction produced. To effect a healing, you will have first to make a thorough examination of the abseess cavity. This done you will have to see to it that the pus or discharge can flow off from every point, and therefore may have to correct or enlarge the opening, or may have to make a new one. This will depend upon the result of your examination. After this is done, you may fill the whole abseess with absorbent cotton, saturated with a five-per-cent solution of earbolic acid, and renew this dressing twice a day until the abscess closes and healing sets in. That the parts must be kept clean may not need my mentioning.

Navicular Disease.—T. L., Moosie, Pa., writes: "I bought a horse last July, and he

healing sets in. That the parts must be kept clean may not need my mentioning.

Navicular Disease.—T. L., Moosie, Pa., writes: "I bought a horse last July, and he was supposed to have been sweenied and had been blistered on his shoulder, which caused him to be very lame. I saw that the skiu on his shoulders was loose, and that he threw his fore leg forward, just resting it on the toe, and the hoof of that leg being considerably smaller than the rest. It is his right fore leg; and as far as I can learn in the "Handy Horse Book," I took it to be navicular disease. I took off his shoes, and turned him to pasture without any treatment whatever. He soon improved and is almost well; but he seems just a little lame, and has been like that for quite a while. Could I not put a strap around the pastern; I mean the hollow just above the hoof? Would it not do it good, as a strap around a sprained wrist or ankle Is a good support? I thought it might help him, as I would like to have him at work by spring if possible, or could I do anything else for him in any way? This is my second attempt, and I hope this will not find its way to the bottom of the waste-basket."

Answer:—Navicular disease is an ineurable ailment, and you ought to be satisfied with the improvement that has taken place. A strap around the pastern can do no good, but might cause, especially if rather tight, considerable damage. If you have written, or intended to write to me before, the letter may have been misdirected; at least, none has reached me. Only letters that contain nonsense and without a signature or are illegible, go into the waste-basket.

Cutaneous Eruption.—J. A. N., Martin,

Cutaneous Eruption.-J. A. N., Martin.

Idaho. If the weather permits, wash your horse thoroughly with soap and warm water; then, before he is perfectly dry, apply a good wash with a two-per-cent solution of carbolic acid. Repeat the last application two or three times, at intervals of three or four days. Clean and disinfect your stable and stable utensils.

Diseased Hoof.—M. VPD., Moiser, Oregon. The new hoof, undoubtedly, is misformed and composed of abnormal horn; the animal, therefore, is incurable. If the malformation of the hoof permits shoeing, some relief may be afforded by judicious shoeing; but the shoes must be reset at least once a month, because in that time the hoof will require a little trimming and paring. The rest must be left to the judgment of the horse-shoer.

Heaves and Scratches.—L. C. D., White House, Tenn. and H. J. K., West Dryden, N. Y. Your sorrel horse has heaves, an incurable, chronic difficulty of breathing. Some rellef can be given if the animal does not receive any tame hay; but instead of it give good oat straw and sufficient quantities of grain. Voluminous food, at any rate, must be avoided; and especially costiveness must be prevented, for it will increase the difficulty. If the animal is kept in the stable, the latter must be clean, well ventilated and not too warm. The best remedy and particularly the best preventive against so-called scratches, which are simply children of neglect, consists in keeping the feet and legs clean. As medicine, a mixture of liq. subacctate of lead (one part) and olive oil (three parts), may be applied three times a day, and will soon effect a cure.

Abrasions.—G. H. P., Scranton, Pa., writes:

times a day, and will soon effect a cure.

Abrasions.—G. H. B., Scranton, Pa., writes:
"My horse has bruised and skinned his leg
from above the hock down to the ankle. I
washed it off with hot water and applied arnica and vaseline to the abrasions; second
day applied vinegar and worm-wood to keep
down inflammation, which is apparently controlled. Was this my best treatment to control fever, remove lameness, and heal the sore
spot, and will you please give justructions for
treatment in such cases, of which there are
many?"

Answer:—As the adage says, there are many roads leading to Rome, so the same object may be reached by various means. Therefore, if you meet with the desired success, I have no criticisms to make, although I must say, my treatment would have been a more simple one. I would either have used strict antiseptics; for instance, a five-per-cent solution of carboile acid, or iodoform, which would have kept down the inflammation, or, under circumstances—according to the nature of the case—a mixture of liqu. subacetate of lead (one part) and sweet oil (three parts.)

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Dr. J. M. Willis, a leading and reliable physician, of Crawfordsville, Ind., offers to send free of all expense by mail, to all who send him their name and address, a box of Pansy Componud, a positive cure for constipation, dyspepsia, biliousness, nervous or siek headache, blood poison and chronic disorders. You should send a two-cent stamp.



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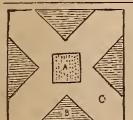
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Seth as she did so:

tion without delay.

departure.

izing how much might be accomplished just

"It can be done before the worst men in the

Setb grasped the situation quite as quickly

as had his sister, and he followed ber sugges-

The mob fell back as if hardly conscious of

what they were doing, when the two moved

forward, half carrying the accused between

them, and no move was made to prevent the

"We'll know where to find him." Bill said in

a significant tone, as the man with the rope began to harrangue the mob, "so what's the

use of raisin' a row now. Seth's sister is grit

to the back-bone, an' if anybody wants to say

a word agin her, let him yip afore we break

up, when I promise more fun than could be

Since Bill was known to be a man who was

ready to fight on the least provocation, and

seldom missed his aim, no one cared to accept

the implied challenge, and Conestoga Joe did

"There'll be free drinks at the Palace for the

This was like pouring oil on the troubled

waters, and with a common impulse the en-

tire throng made all possible haste to reach

the saloon before the specified time should

On the road the men met the rescuers with

their burden, for the stranger was now wholly

unconscious; but the trio were unmolested.

Those who would have lynched the prisoner

despite Alice's presence, were deterred by the

many who openly avowed their intention of

aiding her, and the thirsty party hurried ou,

his share of the peace-making by saying:

had outer a dozen sprees like this."

next thirty minutes."

crowd have time to urge the others on."

Our Fireside.

SINCE NELLIE WENT AWAY.

The homestead ain't ez bright an' cheerful ez it nsed

The leaves ain't growin' half so green upon the maple

The brook don't seem ter ripple like it used ter, down

The babolinks appear ter hev a some at sadder thrill; The wavin' corn hez losts its gold, the snnshine ain't so bright,

is growin' shorter jest ter make a longer

There is somethin' gnawin' at my heart I guess hez

The world ain't been the same to me since Nellie went

The old piano over there I gave her where a bride-It ain't been played upon but once since she took sick and died ;

An' then a neighbor's girl come in an' struck up "Old Black Joe.

"When the Swallows Homeward Fly," an' some-

It almost made me crazy, wild with anguish an' despair-

I saw her sittin' at the keys, hnt knew she wasn't

An' that is why I never want to hear the old thing

The music don't sound natural since Nellie went

The parson tells me every man hez got ter have his

Ilis argument is good, perhaps, for he had orter

But then it's hard for everyone ter allers see the

In turnin' pleasure into pain an' sunshine into night;

I guess it's all included in the Maker's hidden It takes a heap o' grief an' woe ter temper up a

I sympathize with any fellow when I hear him say, The world don't seem the same to him since some one

went away.

The scripture says that, in His own sweet way, if we

The Lord'll take our burdens an' set crooked matters

An' there's a hope that all the grief an aching heart can hold,

Will be offset by happiness a hundred million

fold. When we hev reached the end o' life's eventful voy'ge

An' all our pain an' misery is buried in the

so I'm lookin' for'ard to the dawhin' of a

When mebbe it won't seem so long since Nellie went

-Harry S. Chester, in Chicago Herald.

THE NUGGET

GRUB-STAKE GULCH

BY JAMES OTIS.

CHAPTER III.

A LYNCHING BEE.

T was a strange, sinister spectacle which met the gaze of Alice as she emerged from behind a fringe of bushes lining the edge of the gulch, and stood in full view of an enormous cotton wood tree that was nearly surrounded by a surging, yelling mob of men.

One glance was sufficient to make plain all that had been obscure in Conestoga Joe's statement.

Standing with his back against the huge trunk of the tree was Seth, one arm outstretched to level a revolver at those in front of bim, and the other supporting a young man

about his own age, whose pale face was stained here and thene with blood. The stranger's hands were tied behind his back, and his general condition told bow roughly he had been handled before anyone interfered to prevent

this mockery of justice. Appalled by the scene before her, Alice stood silent and motionless several seconds as if unable to break the spell of terror which bound her, and in that sbort interval she heard, as if in a dream, her brother shout:

"If you pledge your words that he shall have sufficient time to prove the truth of his story, I guarantee he remains prisoner in town until the facts can be ascertained."

Facing the speaker were forty or fifty men, each with a weapon in his hand, and, ignorant as the motionless girl was of the lawless customs of a mining camp, she understood that but one word was necessary to provoke the slaughter of both the accused and his de-

"What better proof can you have than to find him ridin' the hoss he stole?" the forcmost of the party cried angrily, as he coolly proceeded to knot a noose in oue end of a

"lle says that while prospecting he fell ln with a stranger who rode the pony on which you found him; last night the other fellow lit out, taking his horse and leaving the broncho. he was guilty would be have ridden a stolen animal back to the very place from which it was taken?"

"But he did do it," one of the mob replied, "an' you know what the rules of this 'ere town are, We've got nothin' agin you, but some- attempt at escape."

body'll drop if that hoss thief ain't hung up to dry mighty soon. Leave him with us an there'll be no row; but-"

The sentence was finished by the speaker's raising his revolver, and this action caused the remainder of the party to rnsb forward with angry yells and hoarse commands for Seth to step aside.

"You'll have to shoot quick to prevent my sending at least five bullets among your cowardly crowd;" and Seth moved in front of the stranger as if to shield bim with bis body.

"Give it to him, boys!" the leader of the mob shouted, his voice literally trembling with auger. "Sball we let a tenderfoot make us take water?"

So inflamed were the passions of the men that the struggle would have been begun and ended very quickly but for Alice, who, thinking only of her brother's peril, forced her way through the crowd to the very foot of

In an instant every weapon was lowered, and involuntarily the men fell back several

"Go home!" Seth cried. "This is no place for you; it is impossible to say what may happen in the uext few seconds."

"Then so much more the reason why I should stay where I am;" and Alice, speaking without a tremor in her voice, stepped lightly to the side of the accused man, close beside ber brother. "These gentlemen will not shoot at a woman."

"Perhaps not," the leader of the mob snarled; "but when one interferes with what don't concern her, she must take her chances. Come on, boys, are you willin' to let the hoss thief go free because outsiders happen to take a fancy to him?"

"You must not stay here," Seth said in a low tone. "The men are ripe for any mischief, and it is not safe to remain. Go while there is a chance."

"That's the way to talk," a voice close beside Seth added, and looking around the young man saw the proprietor of the Palace. "You take her away for the sake of the town if uotbin' more. Think of what the boys at the Creek will say if we haven't got sand enough to hang a hoss thief."

Mr. Grant's tone was so imploring as to be



had so lately been distinguished by the eltizens, almost brought the tears to his eyes

Alice understood now, as well as did Seth, that nothing could be accomplished by force, and she changed her tactics immediately.

Still standing where she partially protected her brother and the half insensible prisoner, she said pleadingly to Conestoga Joe:

"Mr. Grant, if for no other reason, won't you, as the greatest possible favor to me, ald in saving this man's life until it is known positively whether his story be true or false? To preserve the reputation of St. Julian for fair play, give him the opportunity. If he is guilty I will make no protest at wbatever pnuishment you choose to inflict, and if he is innocent, you will thank and that a foul murder was not committed."

"I stand willin' to do all in my power, Miss Hammond," Joe sald with a very low bow and a majestic wave of his right hand; "but you see how set the boys are, an' it'll take more'n me to put an end to the festivitles.'

"Then I appeal to all the gentlemen" and Alice stepped forward a few paces. "In this camp I have been so kindly received that there can be no question anyone will refuse the first favor, and the only one I will ask. Allow my brother and myself to take this stranger home; we will be responsible for him, and I pledge my word there shall be no

Conestoga Joe delaying only long enough to lift his hat to the lady, for it was absolutely necessary he should be among the first to reach the Palaec. otherwise considerable damage might be done to the property

Bill was about to follow the others, he having been forced to halt for an instant when Mr. Grant made his elaborate salute: but one glimpse of the girl's face checked him.

Now that all immediate danger was passed, nature began to assert herself, and Alice looked hardly less weak than the man whom she was bravely trying to support.

"I reckon I'll take a hand in this 'ere job myself," Bill said as he stepped to her side. 'Let me get a grip on him, Miss, an' you toddle on ahead; you ain't lookin' fit to help a sparrer."

She yielded her place, and nothing save will power enabled her to continue the walk. "These tenderfeet scare easy," Bill said contemptuously, as he shouldered considerably more than half the burden. "If he'd had any sand in hlm, you'd had some help in standin' the boys off.

"The poor fellow is wounded," Seth replied. "The blood on his face comes from a few scratches; but his shirt is saturated."

"I reckon some of the crowd plugged him when he fust showed fight;" and Bill spoke as lf the matter was hardly worth his attention. "It would be kinder rough on us if he went under 'fore the boys get through with him."

"Unless we can stop the flow of blood soon there will be little bone for him." "These kind of cattle don't turn their toes

Theu, without waiting for a reply, and realup so easy; I saw a feller what carried away even bullets: but that was mostly the fault of at this moment by prompt action, she took them as were firin' at him. I hate a man who the wounded man by the arm, whispering to bungles a job like that; one shot oughter be enough for any decent feller."

Alice walked swiftly ou, hardly conscious of where she was. The thought that through her efforts a human life had been saved lent a certain fictitious strength to her limbs; although on the verge of exbaustion she still kept pace with the men. If at that moment she had been asked to describe the alleged horse thief it would have been impossible for her to give even a general idea of his appearance; the fact that he had been rescued from a felon's death, alone occupied her mind.

Arrivlug at Seth's home, the unconscious man was laid on the canvas couch which Alice's brother claimed as his own, and Blll began a rough but reasonably skillful search for the bullet all knew must be in some portion of the sufferer's body.

"It's jest as I thought," the miner sald, after a brief examination. "The man who fired the shot oughter be kicked for poor shootin'. The ball went in here (pointing to a small wound over the third rib on the left side), an' has come out on his back where the prick of a pin will settle it."

In this case the "prick of a pin" was quite a: vigorous slash with a keen-bladed knife, and the leaden missile dropped to the floor.

"Is the wound dangerous?" Seth asked.

"Not a bit of it. I'd take two jest like it for the sake of havin' your sister 'teud to me, an' you kin bet your pile that I wouldu't git well. any too soon."

With a certain rough tenderness Bill bound up the would with bandages hastily prepared by Alice, and when this had been done the invalid showed decided Improvement.

Openiug his eyes he looked around curiously. and asked in a low tone:

"How does it happen that I am here? Where is the mob?"

Bill replied before Seth could

speak: "The boys are filln' up down to the

Palace, an' you are here 'cause one of the handsomest girls in this section of the country, who don't understand what a mean sneak a hoss thief is, stepped in an' stopped their fun. But don't think everything has been smoothed over. If your story ain't: proved, up you go bigher'n a kite, an' all the pretty faces in the world won't save yer."

The invalid closed his eyes as if toshut out that scene by the cottonwood tree, and after waiting a moment to learn if be would make any reply, Bill said to Seth:

"I reckou there's no reason why I should lose the fun they're havin' over to the Palace. This feller is safe here so long as he don't try to dust, an' I'll see you agin in the mornin'."

To leave the house it was necessary he should pass through the room where Alice was waiting until the stranger's wounds bad been dressed, and to her questions Bill replied:

"Don't waste any time on that chump; he'll be'round lively on gh in a couple of days, which is in re'n eould a' been said if Joe lac' 't made a fool of hisself by cor ! 'for you.'

"I wish to thank you, Mr. --Mr. -

"Bill is all the name I go by, Miss." "I must thank you for rendering me such a great service;" and Alice held out her band, the miner taking it as if it was some fragile thing which could be easily broken, as be asked jealously:

"Did you ever see the tenderfoot before?"

"Never; but it was enough to know that he needed the aid of good meu like yourself."

Bill actually blushed, a thing which he had not probably been guilty of for many years, and replied quickly

"Don't bet too much on my goodness, Miss, for you're sure to lose. Why, the boys here say I salted the claim I sold Seth."

"I might have believed such a story but for what has happened this evening. Now I know there was nothing dishonest in the transaction."

"We won't talk about that," Bill said, with evident embarrassment. "If lt should turn out that the feller here didn't steal Jake's pony, you'd better advise him to make tracks for the East jest as soon as he kin straddle a

"Why?"

"Because he's sich a blamed fool that the lightnin's sure to strike him the first time he

CONSTIPATION

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shows his nose out of doors. I'll be 'round in the mornin' to see how the chump is getting

Not until after these words had been spoken did Bill release his hold of Alice's hand, and then he hurried away as if helieving he had done something of which he should feel

CHAPTER IV.

RECTIFYING THE MISTAKE.

On the morning after the proposed lynching bee, Seth hegan to realize that he had taken upon himself a heavy responsibility.

Instead of showing signs of recovery, as Bill had predicted, the stranger was ln a high fever, and required even more attention than could be bestowed upon him. As yet, St. Julian did not number a physician among her inhabitants, and the nearest medical ald that could be procured was at the rallroad junction, seventy miles away.

Alice was virtually an invalld, and If she should be obliged to play the part of nurse, it would have been better that she had never come to the Gulch; but yet someone must take care of the stranger, and after considerable thought Seth decided he alone ought to perform the task.

True to his promise, Bill called early in the day to learn how the alleged horse thief was progressing, and with him came Conestoga Joe. That either of the gentlemen had any very absorbing interest in the man, whom a short time previous they tried to hang, is highly improbable; but the visit gave them an opportunity of seeing Alice, which was not to

"I 'lowed the chump didn't have much sense," Bill said, as he and Mr. Grant were ushered into the room where the sick man lay, and hefore Seth's sister made her appearance; "but who'd thought a little thing like what happened last night would a' knocked hlm over?"

"My experience with tenderfeet has been that the best of 'em are a poorset. Why, the last one what struck this town would a' found fault with the refreshments at the Palace, if Jake hadn't given him a hint that it might be unhealthy;" and Mr. Grant looked at the unconscious man with an expression of deepest scorn. "This feller's a little the worst specimen I've ever seen. What a pity we didn't settle the whole matter last night."

"It strikes me that it is very nearly settled, more especially unless we can induce a doctor to come here," Seth replied, just a trifle angrily.

"I wouldn't put myself out to get one for a chump like this," the proprietor of the Palace replied, thoughtfully; "hut in a town that's got the hoom St. Julian has, we oughter have something of the klud around. Say, Bill, who did the shootin'?"

"I don't know; three or four of the boys took a crack at him."

"And this was the best they could do? We shall be disgraced at the Creek if it leaks out that a tenderfoot lived after more'n one had the drop on him;" and Mr. Grant spoke in a tone of sincere regret.

Seth was about to make some criticism regarding their lack of sympathy, when Allce entered the room, and during the next few moments the visitors were oblivious to everything save her presence. Conestoga Joe, who had indulged in the luxury of a second clean shirt in two days, thereby causing his hoon companious to accuse him of trying to be a "howling swell," went through a series of wonderful contortions in welcoming her, and Bill tried, with very poor success, to copy his every movemeut.

"I am glad you came," she said, too much occupied with the condition of the strauger to be amused by the extravagant gestures of her guests, "for you can help me convince Seth that there is no reason why he should neglect his work in order to take care of the slck man."

"Of course there lsn't," Mr. Grant replied, promptly. "Pump a little whiskey into him uow an' then, an' the tenderfoot will get along

"I don't think that the proper treatment," of the gentleman, with a little help from Seth during the night, and he need not-

"You?" both the visitors cried in surprise. "Certainly. My brother thinks I am not

strong enough; but it can do me no harm-"Seth is dead right," Mr. Grant interrupted, as he shook one fat fluger impressively. "It's clean agin reason that you should spend your tlme ou a hoss thief. Better let the boys settle him, au' theu there'll be no more bother."

"I am confident he did not steal the pony;" and now Alice spoke quite sharply. glance at him is sufficient to show he is a gentleman, and unused to rough life. Very likely he was here prospecting or to buy land."

Bill turned away with a gesture of mingled pity and scorn. That such a pretty girl should waste her hreath in defence of a fellow who allowed himself to he overcome by a trifling wound and the mild excitement of the attempted lynching, was what he could not understand. Mr. Grant, however, was aroused to something resembling interest in the stranger by her words. He remembered the quarter section he was intending to stake off into town lots, in order to be prepared for the coming hoom, and the idea that the wounded man might possibly be a purchaser caused husiness instlucts to momentarily extinguish the flame of newly-kindled love in his heart.

"What's his name?" he asked, eagerly; and Seth replied:

"I suppose we can find out by searching his clothes; hut I thought It best not to do that until two or three were present, so there could be no chance for him to say I had gone too far lu trying to learn what he may have wanted to keep secret."

"He'd hetter not so much as think of sich a thing while I'm 'round," Bill said quickly, and Mr. Grant began the search as if the stranger's wishes were not to he considered for a siugle moment.

A thorough examination of the person and clothing of the delirious man revealed the fact that his name was Edward Morey, and he had probably come to make investments, since there were nearly two thousand dollars in his money-belt. Where he lived or where he was bound could not be ascertained.

"I declare, it don't seem as if a fellow with so much cash would steal an ornery pony like Jake's," Mr. Grant sald, when the search was concluded. "It wouldn't be a bad ldee for some of the hoys to look around a bit, au' perhaps they'd find his hoss."

"But what are we to do for hlm ln the meanwhlle?" Allce asked.

"He's got money enough to pay for what's needed, so we'll see about gettin' a doctor, an' the boys shall take turns lookin' out for hlm. I'd come myself, if husiness didn't interfere, for it can't be anything but a soft snap to loaf where there's so much youth and beauty to be seen."

A languishing look and a profound bow to Alice told for whom the compllment was intended, and Bill, determined not to let his campanion have any advantage, said quickly:

"I reckon it won't hurt me to hang 'round to-day, though it aln't likely there'll be very much to do till the pill-maker comes."

"I may want to call on you later," Seth replied; but just now I can afford to take a hreathing spell, more especially in view of the fact that the claim is not paying hig money at present."

Bill looked up furtively to see if there was any apparent Intentiou on the part of the speaker to reproach him for the late transaction in land; but failing to detect the slightest semblance of a sneer, he said:

"All right. Me an' Joe'll talk the matter over, an' see you agin."

It was evident that Mr. Grant, had Intended to prolong his visit; but when Bill literally helped him out of the room, he could not well offer any objections, and was forced to take his departure.

He waited long enough to take leave of Allce in what he intended should be an affectionate and impressive manner, however; and as the two walked rapidly away, with many a hackward glance, he said, in an outburst of confidence:

"Bill, I've pretty nigh made up my mind to marry Seth's sister. How trade would boom with her a' settin' in the Palace as cashier!"

It was several seconds before Bill made any reply, and then, stopping suddenly as he seized Mr. Grant hy the shoulders in order to look him full in the face, he said with great em-

"There may be more'n you have made up their minds in the same way."

"What! You?" the proprietor of the Palace cried, in astonIshment.

"You can't say a hoss will buck till you're in the saddle," was the sententious reply, and Mr. Grant burst into a perfect paroxysm of laughter, greatly to the Irritation of his frleud, who added sharply, "Perhaps you think you're pannin' out hig; hut I ain't takin' a back seat for anybody ln this 'ere town, an' don't you forget it."

The walk to the Palace was finished in almost perfect silence, and during the remainder of the day more than one of Mr. Grant's patrons wondered why the worthy proprietor and Big Bill were so frigidly ceremouious toward each other,

A helief in the possibility that the stranger might be innocent was rapidly gaining ground in St. Julian, owing to the eloquence of Conestoga Joe, who saw In Morey a purchaser of his quarter section; and sev eral volunteered to go in quest of a physician. Little Bill, so-called because of his ahhreviated stature and to distinguish him from the large gentleman of the same name, was selected by the proprietor of the Palace as the one to go on the charltable mission, and after being presented with a flask of "Joc's best," received the following instructions:

"Let your pouy out and ride like sin. If the doctor chap won't come peaceable, bring hlm. We want people to understand that when the town of St. Julian sends for anything, they are bound to have it, dead or alive."

Some of the gentlemen present thought that Mr. Grant's orders were a trifle too severe, since a dead physician would be of but little service to the invalid; but when this suggestion was offered the worthy proprletor absolutely refused to listen to it.

"I tell you, hoys, we've got to show some indications of sand, or St. Julian never'll get a boom on. If the doctor comes dead, he'll do to start a grave-yard with, au' that's what we're needin'. They've got a dandy over to the Creek, with a claim-jumper, two hoss thieves an' a tenderfoot ln it."

This was a powerful argument which none could combat, and Little Bill rode away at full speed, resolved to carry out his instructlons to the letter.

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Two hours later Mr. Grant made another call at Seth's home; but this time he appeared anxlous to avoid being seen by Alice. He was laboring under considerable excitement, and asked hurriedly when Seth opened the door:

"Do you remember what kind of a hoss the stranger said he owned?"

"A big roan, with one white foot and a slit in the left ear. Why do you ask?"

"Nothin' pertic'lar," Mr. Grant replied, evasively. "Some of the boys 'lowed it would he a good idee to look around a hit, that's all."

"Have you found him?" Seth asked, as the gentleman was on the point of leaving.

"If we had there wouldn't be any reason to come here for the description. How's Mr. Morey gettin' along?"

"Improving, I think. Fortunately, my slster had a small stock of medicines with her, and we have succeeded in reducing his temperature."

"Oh, yes. But say, what's your idee in reducin' him? I didn't 'low he was over and above strong anyhow."

"I mean that we have lessened the fever, and now there is every reason to believe that he will improve rapidly. Did anyone go for a doctor?"

"Little Bill started two hours ago, an' you can bet on seeing him back hefore noon to-morrow. Give my most distinguished regards to Miss Alice, an' tell her I count on callin' agin this evenin'."

Then Mr. Grant walked rapidly away as if afraid Seth might try to detain him, and the latter, his suspicious as to the true reason for the visit not sufficiently aroused as to cause him to investigate the matter, returned to the slck man, who was beginning to show signs of

consciousness. Not until a late hour in the evening did the proprietor of the Palace fulfill his promise in regard to making a third visit, and then he called Seth out of doors before attempting to pay his respects to Alice.

"We've found Morey's hoss," he sald, lu a hoarse whisper.

"Where? When?"

bee?"

"In town here this afternoon. The same feller as stole Jake's pony rode in as If he owned the whole place."

"Was he here when you came to me for a description of the horse?"

"Yes; but I didn't 'low you should know it then, for the hoys wasn't in the humor to stand any foolin'."

"What do you mean by that?" Seth asked, excitedly. "Has there been another lynching

"I reckon that's what it might be called. We've started our graveyard, an' it won't be long now before St. Julian will have more frills thau the Creek."

"Good heavens, man! Didn't the fact that you came very near killing an innocent person last night prevent a repetition of such lawless

"There wasn't any mistake this time. The sneak confessed, so that made everything straight. We give him a bang-up funeral, an' the boys are over to the Palace drlnkin'his health. I don't reckon there's any call to explain the little affair to Miss Alice, eh?"

"Certainly not;" and Seth spoke very emphatically. "If murders are to be committed with the sanction of the inhabitants of this town, by all means keep the fact a secret from her as long as possible."

"See here, Seth," Mr. Grant sald, In a fatherly tone, "I'm a friend of your'n, an' feel it's my duty to give a bit of advice. Don't talk about murder when the boys are 'round, for a rope is the only law we can count on out here, an' if It wasn't used when it's needed, this would be a mighty tough place."

would be a mighty tough place."

Mr. Grant brought the conversation to a close at this point by walking into the house, where he greeted Alice with all the dignity one might expect to find in the proprletor of such an establishment as the Palace.

[To be continued.]

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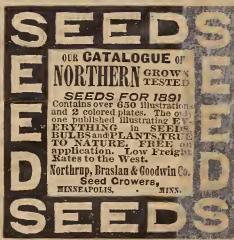
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To Daughter Susie's stylish house, right in the city street.

And there was them, before I came, that sort

How I would find the town folks' ways so difficult to meet.

They said I'd have uo comfort in the rustlin' fixed-up throng,

Aud I'd have to wear stiff collars every weekday right along.

I find I take to city ways just like a duck to

I like the racket and the noise, and never tire of shows:

And there's no end of comfort in the mausion of my daughter:

And everything is right at hand, and money freely flows,

And hired help is all about, just listenin' for

But I miss the yellow almanac off my old kitchen wall.

The house is full of calendars, from attic to the cellar,

They're painted in all colors, and are fancylike to see; But just in this particular I'm not a modern

feller, And the yellow-covered almanac is good

euough for me; I'm used to it, I've seen it 'round from boy-

hood to old age, And I rather like the jokin' at the bottom of each page.

tika the way the "S" stood out to show the week's beginnin',

these new-fangled calendars the days emed sort of mixed).

And the man upon the cover, though he waint exactly winnin',

W:('n angs and liver all exposed, still showed h w we are fixed:

And the letters and credentials that were writ o Mr. Ayer

I've often, on a rainy day, found readin' very

I tried to find one recently; there wa'nt one ln

They toted out great calendars in every sort of style;

Hooked at 'em in cold disdain, and answered 'em in pity,

I d rather have my almanac than all that costly pile."

nd, though I take to city life, I'm louesome after all.

For that old yellow almanac upon my kitchen well.

-Ella Wheeler Wilcox, in the Century.

HELPFUL HINTS.

ACCOMPANYING model for keeping eggs warm will be a welcome addition to any housekeeper who must keep the table waiting for late comers.

The foundation basket is of rushes (just the crainary splint will do), the covering green wool and intermixed with gold; it is begun in the middle of the bottom and worked round and round in chair loops. The inside of the basket is lined with flannel. Strips in double erochet in white wool edged with picots, form the separate receptacles for each egg. The edge is finished along the rim with a row of flat balls.

Appens .- Our model is of sheer India then with insertion and edge of very heavy torchon lace; it is gathered several times it the waist line and fastened to a Ari pace underneath to stay it; cord and tassels finish it at the top.

LETTER-RACK .-- Any boy



BASKET FOR KEEPING EGGS WARM.

foundation of this in light-weight wood. It is then covered with plush, trimmed with a piece of art embroidery, or it can be a handsome ribbon. It is a very useful rcceptacle for letters till answered.

UMBRELLA-CASE.-A receptacle separate from the hat stand is advisable, for unless well taken care of the umbrella is often maimed or mislaid. It should be well dried, then wound up so the silk will not cut, and placed in the case.

Any kind of embroidery may be used upon it. CHRISTIE IRVING.

HOME TOPICS.

CARAMEL CAKE.—Again the school girl has brought me a recipe, and when the product was eaten at our Sunday night tea, all voted it good enough for the readers of the FARM AND FIRESIDE.

To make the cake, cream one third of a cup of butter with one cup of sugar, add the yelks of two eggs, beat together five minutes; add one cup of milk aud two cups of flour, prepared with bakingpowder: flavor with vanilla and lastly add the whites of the two eggs beaten to a stiff froth. Bake in three layers.

To make the caramel, take two cups of brown sugar, one cup of milk and one tablespoonful of butter. Boil this together until it is waxy, but not hard enough for candy. Remove it from the fire and beat until it cools and thickens so it will spread nicely on the cake, but do not let it get cold. When the cakes are cool, spread the caramel between the layers and over the top. It will be smooth and glossy on the top, like icing.

A CARNIVAL OF NATIONS.—Church aid socicties, relief corps, temperance societies, etc., often find it necessary to devise some means of raising money other than by voluntary contribution, and a new idea in the way of an entertainment proves more successful than the more common fairs, festivals and suppers.

I will describe the Carnival of Nations, recently held by our relief corps, which could be given without very much trouble



CASE FOR UMBRELLAS AND PARASOLS EMBROIDERED IN FLAT SATIN AND CROSS STITCH.

comfortable during the winter.

Fourteen booths were arranged to represent, by flags, decorations, dress of the attendants and articles exposed for sale, as many different nationalities. The American, French and Swedish were in the supper room. The American furnished the main supper at one table, of which baked beans, pumpkin pies and doughnuts were the chief attraction. The ladies in attendance wore dresses of the colonial period. The French booth served icecream, and the Swedish, in their quaint costumes, served a lunch which was a very unique affair, as it was composed of national dishes, all daintily prepared and served. The English booth had a display of fine embroideries and textile goods; at the Persian, perfumery and flowers were offered, and refreshing draughts of lemonade were ladled out by the fair attendants; at the Spanish, duskyeyed senoritas sold grapes, raisins, nuts, tropical fruits and olive oil; next to this was a representation of the frozen north, Russia, with a fine display of furs, rugs, ctc., and farther on Scandinavia officred. not only every variety of household articles in wooden goods, but some exquisite wood carvings. The German booth, presided over by red-cheeked, flaxen-haired fraus and frauliens, was headquarters for dolls of every conceivable style; Greece and Italy had a display of fine art work, paintings, etc., not the least attractive feature being the young girls in Greek drees; the Swiss booth sold candics and at the Gypsy booth fortune telling was the

very attractive with its oriental cushions, hangings, rugs, pillows, etc., and its veiled attendants. China, Japan aud Corea combined to make a very attractive booth where bric-a-brac and curios were very tastefully displayed. The attendants were dressed in the costumes of the countries they represented, and so good were the representations that you could hardly be- can be used, and not have it stick to the lieve they were not veritable

almond-eyed beauties from the laud of the Celestials.

This carnival lasted five nights, and every night there were three or four tableaux displayed. Among these were: "The Goddess of Liberty Crowning her Heroes," "Oriental Tea Drinking," "Vestal Virgins," "In the Spinning Room," "A Bride on the Starburet-Bridal Procession in Hardanger," "Shakespeare Reading His First Drama to Queen Elizabeth," "Italian Street Scenes," and many others that were very

brilliant sight was presented by the graud international march, in which all those who had dressed in costumes took part.

Of course, this program can be varied to suit time, place and facilities at hand, but from these suggestions no doubt a very pleasant and profitable entertaiument was a decided financial success and will or expense. It is surprising what elegant

costumes can be made from cheese cloth, canton flannel, cretonue aud silesia with the help of silk or crape shawls and lace shawls and scarfs, which can be utilized in so many ways; and with the aid of pictures and a little ingenuity very satisfactory results may be accomplished.

MAIDA MCL.

GOOD BREAD.

I can tell you why those people who make very nice hop bread fail iu salt-rising, and vice versa. I was two years in learning to manage both kinds, for they require very much difference in handling. First, you must have good yeast. In the hop, some prefer home-made, bottle yeast, others, the yeast cakes, of which I like the brand "Yeast Foam" the best. In this bread, the sponge is set the night before baking day, and put where it is kept warm, not hot.

In salt-rising, the yeast is set in the morning. A quart of boiling water, and when cooled down to 125° or 130° Fahr., add one teaspoonful of sugar, one half teaspoonful of salt and one fourth teaspoouful of soda, aud

aid in making many a poor family more flour enough to make a stiff batter; beat very thoroughly and set where the yeast may be kept more than warm, almost hot, in fact; but do not scald it. With an ordinary fire a warming closet or tin oven is the best place. If your stove is without these conveniences set the dish of yeast inside a larger one, and fill the space between with water which may be kept warm by adding a little more hot water as often as necessary to keep the temperature about 130° Fahr. Notice this first difference. Hop yeast, rather too cool than too hot. Salt-rising, rather too warm (not scalding) than too cool. If salt-rising yeast sours, let it alone; no power on earth can do anything with it in the bread line; mix it with sour milk and use it for pancakes or biscuit, using a little more shortening than if the wetting was all milk. Sour salt-rising yeast is easily told, the bubbles are all about the same size, it looks light but does not raise any more, there is a funny acid smell. In good yeast, bubbles are of all sizes, strong smell of yeast, but nothing acid about it and when once on the raise, it comes quickly, and stops for nothing, not even the top of the dish, hence requires close watching in about five or six hours from the time of setting. If at any time you should see water standing on top of the yeast, stir in more flour (you did not get enough in at first), beat thoroughly again. Some flour seems to thicken quicker than other. When the salt-rising yeast is light, prepare the sponge by scalding a pint of flour with as much hot water as you wish for wetting; at ouce, and then an even, steady fire kept chief attraction. The Turkish booth was when cooled to the temperature of the up. Salt-rising bread is turned out from

yeast, add it, and flour to make a stiff batter; put where it will be as warm as before and when this has raised, it is ready to be kneaded into loaves. Notice the difference now. Use flour enough to make about as hard as cookie dough; then take off enough dough for one loaf at a time and knead it with as little flour as



board. Of course there must be flour enough so you can handle the dough without too much sticking; knead quickly, and when the little blisters begin to show on the surface and the loaf feels smooth and velvety under your hand, it may be put in the tin. Don't overdo the matter, as a young friend of mine did, and roll it up as soft as cookie dough without the proper kneading, thinking if it were softer, the better; she would certainly beat her "missus." It should be kneaded until the blisters show, and feels smooth; and no more flour used than is necessary for this. It should be done as rapidly as possible to keep the dough from being chilled by long standing away from the fire: and think one can do it better to take off a loaf at a time, and will not be in danger of getting in too much flour. In the morning, when your hop yeast is light, sift in all the flour you think necessary; mix up quickly, and it should be hard enough to knead on an unfloured molding-board for ten minutes without sticking. If it sticks, add more flour, until you can knead it without the flour on the board.

Here is the great difference. In hop yeast, use all the flour the sponge will take up. In salt-rising use as little as is necessary to give the proper kneading.

When the hop yeast loaf is sufficiently kneaded (it should also feel smooth and velvety under the hand), place it back in the bread-pan, and when three times its original size, cut off into loaves, handling as little as possible, and using no more flour. Think it is better to roll the dough oue way, as too much twisting and turning at this point injures the grain, and the bread will not be flaky as you see the bakers' bread always is.

In hop bread you have these stages: Sponge at uight, large loaf, loaves in the



INDIA LINEN APRON.

tin. In salt-rising you have: The yeast, sponge, loaves in the tin. Now both are ready to raise for the last time; when double their size, put in a hot oven, and the salt-rising will be done in three fourths of an hour, and the hop bread in one hour. A great deal of success lies in the baking. A fire should be started long enough before the bread is ready to go in the oven, so that the oven may be sufficiently heated to arrest the rising process

the tins and covered tightly with the bread-cloth. Hop bread is turned out, and a wet cloth should be rubbed all over the upper crust before it is rolled up in the bread-cloth. This wetting the crust makes it more tender. Any help or advice will be gladly given to anyone de-GYPSY. siring the same.

The valentine I'd send thee, dear, Not only now, but all the year Is, that thy life may ne'er be troubled, And all thy choicest blessings doubled.

SWEDISH EMBROIDERY.

As bags of every description are so much in vogue, we give something quite new in the way of their adornment.

This one is made of pale, brown leather with applications of cloth, in moss green, pale blue and a reddish brown.

The band all around and across the middle is of green, the large discs and threepointed leaf, and the small discs at the corners and along the middle band is of the blue; the large points and small discs across the top are of the brown.

The green is held on by a waving line of silver thread couched on with white silk; the large points and discs of brown are held by gold thread.

Small spangles of silver attach it in the center. The knots in the large discs are made of silver cord in French knots. The tassels are of silver, and the strings of greeu cord. C. I.

LET US REST.

Not long ago I saw a pretty piece of fancy work. "I will describe it for the readers of the FARM AND FIRESIDE," I thought, but while examining it there came to my soul an utter revulsion of feeling. "No," was my final decision, "I will tell them to let fancy work alone!"

After Charles Lamb had spent thirtytwo years of his life in a routine of business, he was retired on a pension. He wrote of his coming leisure with exultation. He said, "I shall stroll about as purposeless as an idiot."

The phrase strikes one by its novelty. We laugh at it. We think it over. The more we ponder, the more we like it. No thought of the past, no care for the future; no repentance over sins, no resolutions for good works. No attention to the fact that our clothes are shabby, no planning for new. Not a care as to what we shall have for the next meal. No canning of fruit. No fancy work. Rest, perfect rest! Better than rest! Strolling about out of doors, taking in the sunshine, breathing in the clean air. The picture makes idiocy

But why should an idiot monopolize these benefits? Is it wise to be careworn? Does it prove our good sense to be troubled about many things? Have you not noticed that the women who have the most wealth-consequently the biggest houses, the finest furniture and all the things women imagine they need-are the very persons who have no free, joyous, "purposeless," hours? This thing of anxious care is a habit, and its opposite may become one which it would be well for us to cultivate.

I may be mistaken, but it seems to me that fancy work adds to a woman's care.



SATCHEL-SWEDISH APPLICATION.

She cannot positively rest, physically, while she keeps her ten fingers in motion sewing or knitting; and if the object in haud. involves any measurement it demands exercise of the brain as well. Then there is the excitement of wishing to get it done, the strain to accomplish a certain

Certain women say if they can daily take a nap of only ten minutes it proves a great refreshment. If we could gain this

"purposeless" mood it would be as beneficial as sleep, perhaps more so; for while our faculties were lying free, unexerted, they might be open to the chance influence of some happy, outer touch, as the eolian harp responds to the passing breeze and gives forth unexpected and exquisite

KATE KAUFFMAN. Let us rest.

FASHION BITS FOR THE GIRLS.

For home wear, girls are making very lovely aprons of silk, muslin or white wool, trimmed with lace and bands of Roman embroidery, or embroidered in butterflies in ontline.

For the neck trimming of home dresses, collars formed of velvet flowers laid one over the other, and matching the tint of the dress.

A pansy veiling will have a circlet of pur-

the neck band. For a black dress, sprays of holly and berries, on white forget-me-nots, and roses on pale blue or purple violets.

On a great many of the prettiest dresses there is a marked use of black velvet ribbons, in knots, streamers and loops.

The fancy, too, of loops of ribbon at the neck is again re-

The color of all colors this winter is turquoise blue, bright pink and corn color.

The most elegant evening dresses are of broadcloth trimmed with the same material in pale colors.

Ostrich feathers as a trimming are used more than ever; arranged upon a piece of net and worn as a plastron, they make a very effective accessory to wear with a black

Full, deeply-quilled ruches of illusion, dotted with chenille, are brought on for the neck, but they are only intended for house wear. Some ladies show their poor taste by wearing them outside a cloth jacket for street wear. Lace and fluffy accessories should only be used for house wear and dressy occasions. Linen should be woru with

cloth or fine bands of silk. Broadcloth for dresses comes in all shades. From pale pink, coru color, scarlet to all the deeper shades of color. They are very wide and are \$2.50 and \$3.00 per yard. Seven yards is the greatest abundance for a dress.

Handsome serges in all colors are \$2.50 a yard. No wool

is far more desirable thau silk. Buttons its use long-worn garments, rusty from made of the dress material are much used: they range in price from 25 to 40 cents per | yet longer; or new ones of delicate colors, dozen, made to order. From three to four injured by acids, wine or fruit stains, can dozen are used on a dress. Up the front be readily renewed. Light colored stockof the waist, on the coat-tail backs, on the ings, no longer fashionable, can be given inside seams of the arm from wrist to rich dark or black shades; silk lace or ribelbow. For a business dress serge is unsurpassed, and a good one ought to last a

For dresses of soft materials the bottom of the skirt is finished with a wide puff, the upper skirt cut in squares or points to fall over this, the edges being bound with

Plaids and high sleeves are in high

A very deep poke hat, with not much back to it, trimmed up the back with black plumes and a little touch of yellow, a black feather band around the rim outside and a gold cord underneath, formed part of a very stylish costume.

Everybody this winter tried to have a shoulder cape.' They are very desirable, as they can be thrown off in a warm house easily, which is an improvement on the sealskin sacque. The better qualities come from \$20 to \$40, and should be a good fit to look well. With the high collar coming up to the ears, and a big hat worn with them, a pretty girl looks unusually pretty and a plain one more attractive.

Louise Long Christie.

INQUIRIES ANSWERED.

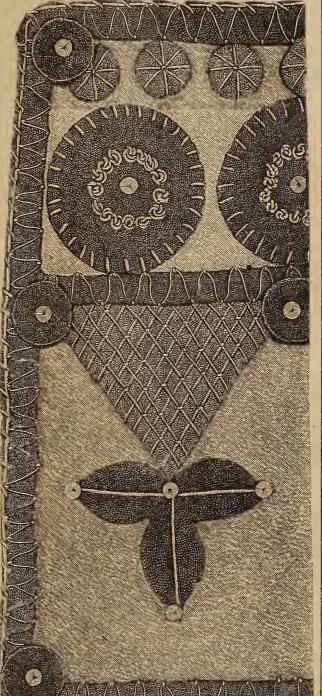
To Pickle Pork.—Cut the pieces about four inches wide in strips. Turn them round in a stone jar and cover with salt; alternating a layer of meat and a layer of coarse salt. Let it make its own brine. Cover it and it will keep well.

To MIX WATER COLORS .- There is no way except to use the water and the paint. You must soak your water color paper so as to have it damp to receive the paint.

TUBE Roses.—These bulbs should be kept in a warm place. They will not bloom until they are three years old.

DYEING.

Perhaps no art is of more value to the country housekeeper than a knowledge of how to dye and renovate old clothes. "Dyeing is the ever ready resource of a slender wardrobe," says a noted writer on economical matters, and we have found it ple and yellow pansies stitched down upon | so. It is an art well worth learning; by



dress wears equal to this. It Piece of Pattern in Swedish Application for Satchel.

wear, can be restored and remade to last bons too yellow for wear, feathers injured seemingly beyond reclaiming, gloves soiled and faded, can all be made to look new.

All woolen goods dye well. Silk, while it never looks quite as well as when new, can be very nicely colored so as to answer many purposes. Irish poplins color well, but usually shrink considerably. Halfworu fabrics of a dark color, may be bleached so as to take light coloring by dipping in a bath of chloride of lime, then well rinsed. In coloring, care must be taken to do the work properly. Soft water is best, and plenty of it should be used. The dyeing should always be done in a vessel of sufficient size to spread out the goods. Before beginning to color, all

The color card accompanying each package of dye will show the exact shade wanted; and with care, any woman can soon learn to color with these dyes equal to professional dyers.

Many-times, persons wishing to dye are at a loss to know what colors will dye various shades best. For the instruction of such we annex the following:

Light green will dye pretty shades of brown, crimson and black; light blue will dye dark blue, crimson, purple and green; brown will dye crimson, dark green and black; drab will dye scarlet, purple, blue, crimson, green, stone and black; laveuder, mauve, light pink and gray will color any darker shade nicely; dark browns, blucs, green and black, if dingy and faded, can be renewed by dipping in dye of the same ELIZA R. PARKER.

CO-OPERATIVE HOUSEKEEPING.

Theories are good, but practical demonstrations are so much better, that we are glad to give our readers the benefit of the experience of some Decatur (Ill.) householders, in their experiment with the cooperative housekeeping system. Fiftytwo families of comfortable income banded together; a kitchen and necessary help were secured, with a paid housekeeper to oversee the cooking and serving. Then each housewife (of which there is one for each week of the year) takes her turn for a week in superintending the housekeeping-buying the supplies, arranging the menu for the week, keeping the accounts, etc. So far, all has worked like a charm; the husbands are satisfied, as the total cost for service and supplies, including all the luxuries of the season, is but \$2.50 per week for each person; the wives are equally well pleased, since it relieves them for fifty-one weeks out of the year, from all the housekeeper's cares and responsibilities, leaving them ample leisure for self-culture and the gratification of their individual tastes and ambitions, besides, what is still more important, time to what is still more important, time to devote to the training and educating of their children. Of her newly acquired liberty and opportunities, one woman wittily says: "In this way a woman can serve her week as head of the house, and take a trip around the world, if she wishes, before her turn to housekeep comes again." Verily, a new era has dawned for housekeepers and housekeeping.—S. I. M., in July Good Health.

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USEFUL FOR HOUSEKEEPERS.

TABLE OF MEASURES.

Two pepper-spoonfuls make one saltpoonful.

Two salt-spoonfuls, one coffee-spoonful. Three teaspoonfuls, one tablespoonful. Four tablespoonfuls, one wine-glass.

Two wine-glassfuls, one gill. Two gills, one cupful. Two cupfuls, one pint.

Twenty-five drops of liquid make one teaspoonful. One tablespoonful of salt, one ounce.

One tablespoonful (heaping) of brown or granulated sugar, one ounce.

Two tablespoonfuls of powdered sugar,

One heaping tablespoonful of sifted

flour, one ounce. Three tablespoonfuls of grated chocolate

weigh one ounce. One quart of sifted flour weighs one

One pint of soft butter weighs one pound. Two coffee-cups of powdered sugar weigh one pound.
One and one half coffee-cups weigh one

Two and a half cups of brown sugar weigh one pound; of lump loaf sugar,

one quart is one pound. Ten ordinary-sized eggs make one

pound. Tweuty-five pounds of dried apples make a bushel.

Sixty pounds of dried beans make one bushel. Thirty-three pounds of dried peaches

make a bushel.

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DO YOU OWN TOKOLOGY

grease and dirty spots should be removed from the garments. They should be well scoured with soap and water and then rinsed and dipped in warm, clear water.

Many country housekeepers prepare dyes at home; but this is a great deal of trouble and is mistaken economy. The various prepared dyes kept by all druggists, aside from their convenience, do the work more satisfactorily and are cheaper.

Mrs. M. S. Ramsey, of Cedar Gap, Mo., writes: "Three years since I procured TOHOLOGY. a Complete Ladies? Guide in health and disease. I followed its teachings in two instances with happiest results. I cannot say enough in its praise. I ask every woman: Have you read TOHOLOGY—if not, then get it at once—its value cannot be estimated in money." Mrs. K. writes: "Send me an outfit for TOHOLOGY. My aunt in Dakota says: "If you must sell books, sell TOHOLOGY, as it is, next to the Bible, the best book I ever read." Sample pages free. Agents wanted. Prepaid \$2.75. Alice B. Stockham & Co., 161 La Salle Street, Chicago, Illinois.

Our Kousehold.

OUR PUBLIC SCHOOLS.

As a class, there is no other than our school teachers who make more earnest effort to know their duty and do it; and as a class there is no other so little appreciated or assisted by its patrous. It is safe to say one half their energies are speut in counteracting the effects of defective home training, order and obedience being necessary to the dissemination of knowledge. Without obedience there can be no order, without order there cau be no attention, and without attention instructions are wasted, no matter how efficient or earnest the teacher. What does it benefit if our teachers are graded or trained to the highest order of education, if they must spend their time in training the children under their care to the first principles of obedience? Take, for instance, some children who at home never obey without the fear of a whip, whose sensibilities have uever been exercised above the mere physical impulses—all the higher faculties dwarfed. To eudeavor to apply the refined principles of education to such a mind is like trying to polish metal without the grinding process to smooth down the coarse features.

Therefore, if we would receive the full benefit of the abilities of our public school teachers, we should, as pareuts, do our part in training and fitting our children to receive the instruction.

Disobedience and insolence are demoralizing, and unless overcome in the school the whole institution must suffer the bad effects. Often parents who have been neglectful of their duty will oppose the teacher's efforts, thus making more ineffective the already almost fruitless task. It is because of these conditions that our teachers fail so often in results, which they have every qualification to attain, were the couditions favorable. This is a grave matter for parents to consider, one that should find a place iu every Alliance for consideration. Every effort that intelligence can devise is brought to bear in the process of education. Should not something practical on the part of parents be also instituted to prepare the children to receive the benefits?

Am I my brother's keeper? Yes. So loug as your children are thrown into intimate and daily intercourse with his, does not the moral and intellectual training of his children concern you? Whether or not you consider yourself responsible for his moral conditiou, does it lessen the effect? Did you withdraw your children from the public schools to avoid these influences? Will they not, when developed into citizenship, reach you in a more aggravated sense? Hence the law of selfpreservation makes us our brother's keeper. It would be well for parents to meet sometimes with teachers and hear these methods of education discussed, and learn, too, the difficulties to be overcome. -M. J. Hunter, in Kansas Farmer.

WINTER BISCUIT.

Sometimes when we get tired of light bread, instead of making bread, I add a teacupful of butter or lard to the dough (about enough to fill a gallon crock); after it rises well, work it down and let it rise again: work it down again, then put away in a cool place, and when needed, roll out and bake just the same as any other biscuit, without waiting for them to rise, and be sure to have a brisk oven. These make most delicious biscuits, and the dough will keep sweet and grow better if kept in a cool place. -

BISCUIT No. 2.-If anyone wishes a certain recipe for good biscuit, let them try this: Take three pints of flour and a heaping teaspoonful of soda, two of cream tartar, one of salt; sift all together, add a small haudful of lard, and sweet milk enough to make a soft dough; roll out with as little working as possible, and bake in a quick oven. Very much more reliable than any baking-powder I have ever tried.

MUSTARD RELISH .- Put a pint of strong vinegar on the stovo to boil, in a grauitciron kettle; mix with a little cold vinegar, two large spooufuls of mustard, one of flour, two teaspoonfuls of sugar, one of salt, one quarter of a teaspoonful of cayenue pepper and boil all together.

LEMON HONEY .- Dissolve two cups of a box.

sugar in the juice of two lemons, beat two eggs very light, add one cup of water and mix well; add a piece of butter the size of a small egg; cook till thick (about twenty miuutes) stirring constantly.

LEMON PIE.—Take the juice and grated rind of a lemon, oue cup of boiling water. one cup of sugar, oue large spoouful of flour, yelk of one egg; dissolve flour in a little cold water and boil all together. Bake crust same as for cream pie and fill, when done, with the above mixture. Beat the white of an egg to a stiff froth, add sugar to taste, and spread over the pie and place in the oven for a minute until the egg is cooked.

APPLE MARMALADE.—Take some very tart variety of apples, pare, core and quarter them, and cook as for apple sauce. If not thoroughly cooked up mash them soft, and for each teacup of apples, add a cup of white sugar; cook rapidly, stirring all the time, for fifteen minutes, or until it looks clear and hardens when cold. After moving from the fire, flavor with extract of lemon, and put it in small, widemouthed jars or crocks. If done right it will be perfectly colorless and will slice off beautifully.

APPLE DUMPLINGS .- Pare good, tart apples, cut in half and remove the cores. Make a dough same as for soda biscuit; cut off a piece, about enough for a biscuit, and put two pieces of the apple together, fill the cavity with sugar, and with floured hands roll the dough around the apple tightly, and put in a baking-pan, leaving plenty of room for them to rise without touching each other; then put two spoonfuls of flour, a cup of sugar, a lump of butter size of an egg, all mixed up smooth with a little cold water, into a sauce-pan, add a few pieces of lemon peel or nutmeg, pour on boiling water, and when thin enough pour around the dumplings. Cook in a moderate oven for an hour, and add more water as the other boils away. Be sure and have enough of the sauce when

CO-OPERATIVE LAUNDRY.

About thirty years ago a co-operative laundry was organized by about fifty women in Chicago. It was a crude, blundering affair in which hand labor and machinery were equally used, but it was a success. The work was well done, both the expeuse and labor being reduced one half, and the work was brought to a satisfactory system. A few years since about twenty-seveu families of my acquaintanco combined, and assisted the intelligent washerwoman of a dozen of the households to organize, in her hired house, a laundry of very moderate proportious.

The woman was Euglish, a widow, strong and executive, as were her two vigorous and willing daughters. With a small outfit of washing-machines, wriugers, mangles, boilers, flat-iron heaters and set wash-tubs, these three women laundered for the entire twenty-seven families, returning the clothing to its owners in beautiful whiteness and smoothness by Thursday night of every week. For some they mended and repaired. Other families joined the organization, until it numbered thirty-eight. They would receive nothing to be laundered after uine o'clock Monday morning; they would have every piece of clothing out of their house by Thursday night. They purchased starch, fuel, bluing, soap and whatever else was needed, by the wholesale, thus getting the most for their mouey, and hired transient additional help when necessary.

Not only did these three women make a living, but they maintained a handsome account in bank, bought a three-story brick house, with modern improvements, in a desirable part of the city, which today yields the sisters a fair income; adopted an orphan girl baby, and reared and educated her to become a successful teacher, a comfort to them and a help to society. The business was continued till the death of the mother and the marriage of one of the sisters compelled its abandonment. This modest experiment reduced the expense of washing and ironing one third to the families interested, and took out of their houses all the labor, care and confusion incidental to the disagreeable work .- Dress.

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Our Sunday Afternoon.

THE COMING GLORY.

1D the spiendors of the glory Which we hope cre long to share, Christ our head and we his members, Shall appear divinely fair. Oh, how glorious When we meet him in the air!

Oh, what gifts shall yet be granted, Palms and crowns and robes of white, When the hope for which we pauted Bursts upon our gladdened sight; And our Savior

Makes us glorious through his might.

Bright the prospect soon that greets us Of that louged-for nuptlal day, When our heavenly Bridegroom meets us On his kingly, concuering way: In the glory,

Brlde and Bridegroom reign for aye!

TALKING THAT IS TAKING.

o MAN who can talk well, and has sagacity enough to use his gift for the advancement of his worldly interests, need ever be poor. To the inheritor of a ready-made fortune, not, perhaps, a matter of

much importance. Wealth is a special pleader which requires no assistance from art or nature to win consideration in society; and the veriest stammerer and blunderer that ever used the parts of speech need not despair of popularity and praise if he has had the luck to be born with a silver spoon in his mouth, instead of a silvery tongue. His money will speak for him, and to the purpose. Golden opinions are easily procured, if you have the gold wherewith to purchase them.

To him, however, who has to make his own way in the world, verbal magnetism (if we may uso the phrase) is a wonderful assistance. Let the poor man thus endowed cultivate his faculty carefully and use it judiciously, and it will be sure to enrich him. If he has plenty of executive ability, as well as an agreeable fluency and a convincing way of putting things, so much the better. Hundreds of profitable and-praiseworthy objects fall to the ground every year in consequence of not being placed in an attractive light by their originators.

Ferdinand and Isabella shook their heads at first at the idea of sending a squadron into unknown seas in search of a new coutinent, but Columbus talked them into it; nay, more, by the irresistible eloquence of inspired talkers the Christian religion was established, and were it not that they have been talked into it by earnest exponents of truth, thousands who are now voyaging towards a brighter and better world than Columbus gave to Castile and Aragon, would have missed the heavenward track.

GOD'S CHISELS.

Look at the artist's chisel. Most certainly it carves the statue. The artist cannot carve without his chisel. Yet imagine the chisel, conscious that it was made to carve and that it is its function, trying to carve alone. It lays itself against the hard marble, but it has neither strength nor skill; it has no force to drive itselfin, and if it had it does not know which way it ought to go. Then we can imagine the chisel full of disappointment. "Why cannot I carve?" it cries. Then the artist comes and seizes it. The chisel lays itself into his hand and is obedient to him. That obedience is faith. It opens the channels between the sculptor's brain and the hard steel. Thought, feeling, imagination, skill, flow down from the deep chambers of the artist's soul to the chisel's edge. The sculptor and the chisel are not two, but one. It is the unit which they make that carves the stone.

We are but the chisel to carve God's statues in the world. Unquestiouably we must do the work. Our hands must touch men's lives and save them. Our lips must speak the words that shall convict sinners of their sins, point penitent ones to the Lamb of God, comfort the sorrowful, put hope into the hearts of the tempted, the struggling and the weary toilers. The mother, the teacher, the Christian friend must carve the soul of the child into the beauty of the Lord. But the human worker is only tho chisel of the great artist. The artist needs his chisel; Christ has chosen to use the human

But the chisel can do nothing, produce no beauty of itself. The artist must soize it and the chisel must lav itself into his hand and be obedient to him. We must yield ourselves together to Christ and let him use us. Then his power, his wisdom, his skill, his thought, his love shall flow through our soul, our brain, our heart, our fingers. That is working by faith .- Phillips Brooks.

WHAT IS NEWS?

An ingenious editor of a large and successful daily, who would be recognized as one of the best newspaper men in the United States if his name were mentioned, recently had occasion to employ some new reporters. Many men applied, all of whom he called into his sanctum and, paying no attention to their letters of recommendation, gave each one of them a writing-pad, at the head of which was the question, "What is news?"

"Half an hour to answer that question, young gentlemen, then I shall know how to make my choice."

There was some lively scratching for thirty minutes, and the result of the newspaper examination was intensely interesting. Some of the answers of the successful competitors are suggestive. Here are a few of them:

"News is anything that the general public ought to know."

"News consists of events that are either very usual or very unusual."

"News is the daily record of the human race put iuto convenieut shape for the public."

"News is the panorama of the world every twenty-four hours in embryo."

"News is whatever the public will read and pay for."

"News is anything from Jones' arrival

in town to the fall of an empire." "News is historical fact. It is what oc-

curs; not what is imagined." "News is the truth concerning men,

nations and things. That is, truth concerning them which is helpful, or pleasant, or useful, or necessary for a reader to

This last definition pleased the editor very much. It is a serious question whether even a small per cent of what is commonly called "news" in our daily papers, would staud the test of that def-

DO NOT BE A SLAVE.

Why will you keep caring for what the world says? Try, oh try, to be no longer a slave to it! You can have but little idea of the comfort of freedom from it-it is bliss. All this caring for what people will say is from pride. Hoist your flag and abide by it. In an infinitely short space of time all secrets will be divulged. Therefore, if you are misjudged, why trouble to put yourself right? You have no idea what a great deal of trouble it will save you. Roll your burden on him and he will make straight your mistakes. He will set you right with those with whom you have set yourself wrong. Here am I, a lump of clay; thou art the potter. Mold me as thou in thy wisdom wilt. Never miud my cries. Cut my life off-so be it; prolong it-so be it. Just as thou wilt, but I rely on thy unchanging guidance during the trial. Oh, the comfort that comes from this!-Gen. Gordon.

It is sad to see with what unbelief the prophecies of our Lord are received; what little weight they carry to all out of the church, and to too many in the church. An unusual and prolonged darkness sets the whole world in a tremor, thinking that the whole world is coming to an end and that the day of judgment is at the door.

If the day of judgment is such a terror, and such a terror it most assuredly will be to those unprepared to meet it, would it not be the part of wisdom to make a preparation for it, the first thing to be done? It is a matter of little difficulty to who will accept it—accessible to all—sufficient for all who will enter at ouce. To such, the judgment day, come when it may, will have no terror.—Faith's Record.



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PRACTICAL KNOWLEDGE OF THE ANCIENTS.

Rosilini, a celebrated hierologist, says: "Philologists, astronomers, chemists, painters, architects, physicians, must return to Egypt to learn the origin of language and writing; of the calandor and solar motion; of the cutting of granite with a copper chisel and of giving elasticity to a copper sword; of making glass with the variegated hues of the rainbow; of moving single blocks of polished syenite nine hundred tons in weight any distance by land and water; of bullding arches round and pointed with masonic precision, unsurpassed at the present day and antecedent by two thousand years before the Dorisus are known in history; of fresco painting in imperishable colors, and of practical knowledge of anatomy."

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Bermuda Bottled.

"You must go to Bernuda. If you do not I will not be responsible for the consequences." "But, doctor, I can afford neither the time nor the money." "Well, if that is impossible, try

SCOTT'S

OF PURE NORWEGIAN COD LIVER OIL. sometimes call it Bermuda Bottled, and many cases of

CONSUMPTION. Bronchitis, Cough

or Severe Cold I have CURED with it; and the advantage is that the most sensitive stomach can take it. Another thing which commends it is the stimulating properties of the Hypophosphites which it contains, You will find it for sale at your Druggist's but see you get the original SCOTT'S EMULSION."



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Long, Padded News Articles:
The Padding Doesn't Add to the Value.
And I Haveu't Time to Read them.

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Fierce, One-Sided Editorials,
Written by Special Pleaders,
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John Dougall & Co., 150 Nassau St., New York.



Say where you saw this advertisement,

Gleanings.

JUST LIKE GROWN FOLKS.

Said little Grace to little Bess, "I guess I'll make my doll a dress." Said little Bess to little Grace, "I think you'd better wash its face." "Wash its face, indeed!" cried Grace-In conscious wisdom she grew prouder-"I'll do like grown up ladies do.

Just put on grease and lots of powder." -New York Epoch.

RAZOR SORE.

"Yes," said a Pearl street barber as he was shaving me the other day, "we often have amateur shavers bring us their razors to be fixed up. Almost any man with a steady hand can shave himself, but not one in fifty can keep his razor in decent condition. The first reason is that amateurs wear all the temper out of their razors by excessive strapping, and the better the steel the easier it is affected in this way. The only remedy is to let it alone. Put away the razor that scrapes and cuts the skin and give it a good rest. Then use it again and in all probability it will be in good shape. Some of the modern shaving sets have as many razors as there are days in the week, and on the handle of each is engraved the name of a day. If the rotation is kept up very little sharpening is needed. I have known men talk of pet razors which they have used every day for ever so many years; if they would let those lie by for a while they would find a welcome improvement. The second cause of the trouble is bearing on the razor while sharpening it. You never want to attempt to put on an edge before shaving. When you are through, rub the blade a few times lightly on a plain leather strap, which need not cost above a quarter, and then put away. The old, boiling water craze is exploded now, and professionals do just as good work with cold water as hot.

BLACKING STOVES.

Every good housekeeper dislikes to see a grimy stove, yet often dreads equally the grlmy hands acquired in the process of blacking. A pair of thick gloves is, of course, a necessary part of the outfit of any woman who does kitchen work, and yet desires, as she should, to keep her hands dainty. As a rule, far too much blacking is used on stoves. A cake of blacking, such as is sold for eight cents, ought to last a year for blacking one stove. If more blacking is used, it will not be rubbed into the surface of the stove as it should be, but remain as a fine dust, to be afterward blown about the kitchen and cause a generally grimy appearance, so often seen in uncared-for kitchens. A fresh coat of black should not be applied oftener than once a month, when the flues should also be cleaned out and the interior of the stove thoroughly brushed out. Before putting on new blacking, the old blacking should be washed off; the new coat must now be applied and the stove thoroughly polished.

The edges of the stove, if they are of polished iron, should not be blacked, but cleaned like a steel knife, with sapolio or brick-dust. The nickel knobs and other nickel parts of the stove must be rubbed bright with a chamois skin or old, shrunken flannel. An ordinary paint and whiting brush is one of the best things chance for the too-often tedious and emwith which to apply blacking to a stove. A stiff brush, such as is used for this purpose, is the best brush for polishing. During the month, polish the stove with the polishing-brush each morning, just after kindling the fire. Keep an old cloth always on hand in cooking, to rub off any grease spot as soon as it occurs. If the spots are obstinate, a few drops of kerosene oil put on the stove-cloth will remove them. The ground edges and nickel work of the stove should be rubbed off at least once a week, besides the monthly cleaning when the stove is blacked.

FLORAL FASHIONS.

The chrysanthemum is in the ascendant, and very soon every house, flat or room will be illumined by its splendid bloom. This is one of the effects of taking Japanese art into our bosom. We have learned the decorative lesson and profited, for it would seem a flowerless autumn were we to be deprived now of this perfect bit of natural decoration. And another floral idea has also arrived from Japan, one which bids fair to rival tention.

the more fragile creations of the greenhouse. Dwarfed trees, strange, stunted, gnome-like plants, set in the artistic, porcelain pots of that land of art and invention, will be used for dinner-table and house decoration. Already they are employing them in London houses, and no doubt in time they will appear here, superseding the familiar rubber plants and palm, and giving that one note of vernal oddity so prized by the tasteful owner of a well-composed room.

A NEEDED ACCOMPLISHMENT.

The gift of one good voice, clear enunciation, correct pronunciation, in every family, would raise the enjoyment of home life fifty per cent, if such valuation could be placed on so spiritual a family possession; the gain that would result in the increase of general intelligence to each family is incalculable. It seems a great pity that when so much money is spent on accomplishments that really minister to the student's development only, more attention is not given to the very desirable accomplishment of elocution; not that the student may recite in public, but that he or she may read in private for the common development of the intelligence of the family.-Christian Union.

THE BENEFIT OF COFFEE.

Dr. I. N. Love, of St. Louis, in a paper on this subject, said that his experience for five or six years past had been strongly in favor of taking a cup of strong, black coffee, without sugar or cream, between two glasses of hot water, before rising every morning, at least an hour before breakfast. The various secretions were stimulated, the nervous force was aroused; an hour later a hearty meal was enjoyed and the day's labor was begun favorably, no matter how the duties of the day and night preceding might have drawn upon the system. Another cup at four in the afternoon was sufficient to sustain the energies for many hours. In this way the full effect was secured. If, along with this, the proper diet were taken at the proper times-and the ideal diet for those who make large drafts upon their nervous systems and expected to have them honored, is hot milk-and at least eight hours of sleep were taken out of every twentyfour, one's capacity for work would be almost unlimited.

THE ART OF LEAVING.

When Mme. de Stael visited Weimar with the avowed intention of intellectually capturing the literary lions of the day-Goethe and Schiller-she made one fatal mistake; she stayed too long. Goethe wrote to Schiller: "Mme. de Stael is a bright person, but she ought to know when it is time to go."

The art of leaving is less understood by women than by men. The habits of business, the recognized fact that to a business man time is money, the throng and press and exactness of business life, all tend to make men who live in cities the best possible exemplars of the fine art of leaving quickly and neatly. A business man's social call is usually a model of good manners in this respect. When he has said what he has to say, and listened to what there is to hear, he takes his hat, says "Good-evening," and is out of your presence without giving any time or barrassing commonplaces of mutual invitations and promises to call again, which seem to be a kind of social formula with women. In striking contrast with this neat and skillful method of cutting short the parting word of an interview or call, is the too common social practice of visitors who, commencing to leave, seem temporarily to abandon their purpose, and then linger as though it was a kind of compliment to the visiting party to appear loth to part.

Who does not dread the visitor who starts, then thinks of something else to say; rises, and then thinks of another subject of conversation; nearly reaches the door, and most probably holding it open, is aroused to a degree of mental brilliancy that threatens his health and that of his host or hostess, by long detaining of both in a cold draught while he discourses? What a tax on the patience and politeness of the visitor, who vainly strives by assenting instantly to every proposition to end the interview and break the restraining bond of polite at-

MAKING AN HONEST LIVING.

T is said that Mrs. Bonanza Mackay is

advertising rewards for the detection

of the person who circulated the

infamous story that she once took in washing in order to make an honest living. There are lots of people like this. But think of ita woman ashamed of having done honest work when poverty left no alternative save dishonesty. It is a sad thing, and a monstrous thing, too. The people, whose evolution from poverty to riches and honor has been due to faithfulness in small beginnings, are legion, and most of them are proud of it. Worcester has such people. One of its honored citizens today is a man who, when a boy, walked into Worcester with his brother. They had tramped all the way from Maine. They founded one of the most famous enterprise's of the world and their name is known wherever civilization has extended the bounds of trade. One is dead now; he died honored and respected. The other still lives and is active in his business. He has represented his ward in the legislature; he has been an alderman; he has done good with his money. He, too, is honored and respected. Once he had not money enough to pay his fare into the city. Worcester glories in the spunk of boys like these and so does every true American. When a woman like Mrs. Mackay thus advertises herself as having

of the republic.-Light, Worcester, Mass. SCRAPS.

reached the pinnacle of snobbery, it dis-

gusts decent people and outrages the idea

Almost everyone has at some time of her or his life started a scrap-book; almost everyone has given it up after accumulating a mass of matter pasted in a chaotie

manner in a book too large for use.

The collection of scraps on subjects in which we are interested is fascinating, and also very useful; so thoroughly has the advantage of such collections been recognized that there are bureaus in large cities which make a business of collecting scraps on any given subjects for you, culling them from all the papers, magazines and journals of the day. Some are interested in one thing and some in another—some in the tariff, and some in jewels—but all are supplied. Most of the great people of our time, or those who wish to consider themselves so, employ one of these bureaus to collect paragraphs which may be written about them; a plan which is really necessary to one who finds it important to know how he is regarded by the public. There are also people who make a business of arranging scrap-books, and who have a talent for doing this satisfac-

torily.

The only way to collect and keep scraps is to devote one book or receptacle to a special subject; and, indeed, there is a most excellent series of scrap-books published now, of a convenient size, and labelled with any subject you desire. You can thus have your books uniform, and an addition to your book shelves. You may collect articles on the woman or labor questions, on temperance, poetical selections; and many of the "strays" of the newspaper corners are among the sweetest gems in the language; or you may collect jokes—and an immense amount of pleasure can be found in a collection of good jokes.

you have books devoted to your special subjects, small and easily handled. with your scraps put in with flour or photographer's paste, you have something which is handy for reference, and invaluable in its way for the purposes which specially interest you.

An old physician, retired from practice, had placed in his hands by au East India missionary the formula of a simple vegetable rentedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and all Throat and Lung Affectious, also a positive and radical cure for Nervous Dehility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering. I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. Noyes, \$20 Powers' Block, Rochester, N. Y.

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Our Miscellany.

RESEMBLANCE.

When the roses are in flower, Kissed by sun and kissed by shower, Will I gather one for thee? Roses red are like thy lips, Pink ones match thy finger tlps; If a white one I can find, 'Twill be the emblem of thy mind. Such a one I'll send to thee; Wear it, sweet, and think of me. -E. G. B., in Young Ladies' Journal.

LIGHT labor-Cleaning the lamps.

A CAPITAL fellow-The millionaire.

ENOUGH is always a little more than we have.

FOR A DISORDERED LIVER TRY BEECHAM'S PILLS.

PROVIDE a dry and comfortable shelter for calves.

SAVE the middle grains of the finest ears of corn for seed.

GRAY hair indicates that the hair-producing vessels are weakening.

WHEN the lips crack or chap apply, with a soft linen cloth, citron cream. Cocoa butter is used to nourish and soften

the skin aud to prevent sunburn. GENTLENESS makes children endurable,

women lovable and men admirable. NEW YORK is still the leading dairy state of

the union. Iowa stands a good second. TIME is money, they say. And we have often

observed that It takes a good deal of money to have a good time. SALT will curdle new milk; so in preparing

custard and porridges, salt should not be added until the last thing.

A LITTLE borax, put into the water in which colored napkins or bordered towels are washed, will prevent them from fading.

THERE are sixty-two national and international organizations of labor in the United States, according to the latest reports.

CARPETS may be greatly brightened by first sweeping thoroughly and then going over them with a clean cloth, wet in clear salt water.

AFTER all, the only real difference between laughing and crying is that in one case the corners of the mouth turn up, while in the other they turn down.

HE said to her-"The moon is always just the same, and yet I always find some new heauty in it." She said to hlm-"It's just so with the circus." He bought tickets for two.

HE-"What does the poet mean by an 'aching void?' I can't understand what it can possibly be." She-"Why, I should think you ought to know. Have you never had the headache?"

IT was Washington Irving who said that "with every exertion, the best of meu can do but a moderate amount of good, but it seems in the power of the most coutemptible individual to do incalculable mischief."

WHEN you make a mistake, don't look back at it long. Take the reason of the thing iuto your own mind and then look forward. Mlstakes are lessons of wisdom. The past cannot he changed. The future is yet in your power.

A COLORED man named Frank Roberts has bought the mansion honse of the late Alexander H. Stevens, vice-president of the Confederacy, and is fitting it up for his own resldence. Mr. Roberts owns some of the finest business property ln Marietta, Ga.

"Cheap Lands and Homes in Keutucky, Tennessee, Georgia, Alabama, Mississippi and Louisiana" is the Title of a Pamphlet Issued by D. G. Edwards, Cincinnati, Ohio, General Passenger and Ticket Ageut Queen & Crescent Route, containing correct County map of these States. Mailed free on application, to any ad-

Nothing opens so wide a door to vice, to crime, to evil habits of every description, as the absence of occupation. The downward course of many a promising youth, the rain of many a hopeful life, may be distinctly traced to the void caused by having nothing definite and positive to do. The faculties must be active, the energies must be at work, and if not employed for good, they will be for evil.

IT is comparatively seldom that au intimacy, capable of producing perfect sympathy, is formed between persons of very different ages. Every year changes, in some degree, the focus with which we look upon men and upon the world, and the degree in which they influence us. A blow which nearly kills a man at twenty only wounds him at forty, and at sixty hardly hurts him at all.

WESTERN cyclones are indeed curlous things. The editor of the Tomville Call vouches for the fact that a cyclone blew into his office last week, threw the set type all over on the composing stone, locked up the forms, whirled them onto the elevator, jerked them clear through the press and printed seven hundred copies before the force could get control of the machine. And the only mistake in the whole thing was the misplacing of a patent medicine "ad" that ought to have gone "top col. next reading matter." "Bring on your cyclones," says the Call.-Light.

INTENTIONALLY MISUNDERSTOOD.

Chappie-"It's very disagreeable when a fellah goes into society to meet one's tradespeople."

Cynicus-"Why, they don't dun you before the company, do they?"

MRS. PARTINGTON IN MAINE.

The Maine Mr. and Mrs. Partiugton are still on deck. One lady just returned from Boston informs the neighbors that she "rode upstairs in a refrigerator and had her clothes washed at a foundry." A Mainc man recently rose in a municipal meeting and solemnly announced that "for reasons unknown to himself he desired to resign." An old lady in Bath recently mortified her relatives Intensely. At a grand dinner she overheard a lady guest politely answer to the wielder of the carving-kulfe that It was immaterial which portion she had. A luscious slice was passed up to her, and our old lady, after an appreciative glance, "guessed that she would have a small hunk off'n the lmmaterial."-Lewiston Journal.

SHOE BLACKING AND COLD FEET.

"When the leather in your shoes becomes old and begrimed with blacking, you will ascertain that the feet will be cold," remarked the old-time shoe-seller. "Then it is time to cast aside the shoes and use them to wear heneath arctics, or for some other purpose. I have seen it referred to many times; but If you want to keep your shoes in good condition you should use vaseline on them often. The life will be kept in the leather, and, if rightly applied, you can shine the footwear just as well as if the preparation had never been used. Put it on at night when taking off the shoes. There is castor and like oil, also, that will as well serve the purpose and keep your shoes and boots in good shape, imparting much greater warmth to the feet than if you allow hlacking and the like to eat up all the life in the leather. When blacking commences to cake on the shoes, wash them with plaiu water, no soap."-Shoe and Leather Facts.

"RIVER, BY ORDER."

One of the annoyances of a commander's llfe is a subordinate officer who discusses orders and makes trouble, whenever he can do so and escape punishment. Of one of this class, whose teudency was to divide "a hair 'twixt south and south-west side," an amusing story is told in "Campaigning with Crook."

Colonel Royal, commanding a cavalry brigade, ordered this officer to "put that battalion in camp on the other side of the river, facing east." The officer marched his command to the spot, hut, as Colonel Royal soon saw, instead of obeying instructions, began carrying out his own ideas. The colonel put spurs to his horse, dashed through the

stream and reined up alongside of the officer. "Didn't I order you, sir," he roared, "to put your battalion in camp along the river, facing

"Yes, sir; but this ain't a river. It's only a creek," answered the hair-splitter.

"Creek, sir? It's a river-a river from this tlme forth, by order, slr. Now, do as I tell you."

TONY'S COMPLAINT.

Upon a certain southern plantation, before the late war, there was among the negroes an old man named Tony, whose duty it was to attend to a little over-shot mill, where was ground the meal used upon the plantation. He was a constitutional grumbler, never satisfied that he got his share of anything.

Between Tony and his master there existed a strong friendship; they had been playmates in boyhood, and Tony never falled to pour into his master's ear the tale of his real or imaglned wrongs.

One summer an epidemlc of fever broke out In the crowded Negro quarters. It prevailed for several weeks, and many of the servants died; but Tony's house was apart from the others, upon a high hill near the mill, and he and his family escaped the pestilence entirely.

One morning in the fall, after the epidemic had subsided, his master, sitting upon the gallery, saw Tony approaching, with his usual moody, dissatisfied expression.

"Well, Tony," he sald, "what's the matter now? You've been so lucky in escaping the fever, I expected to see you happy for once in your llfe."

"Lucky?" growled Tony, "I don' see whar de luck is. Hyah's all dem other Niggahs been layin' up an' restin' in dey beds fur weeks an' munts, havin' mo' physic den dey could hole down, while I'se been grindin' stlddy on dat mill, an' me an' my folks aint even had our sheer uv de physic used on de plantashun."

A HANDSOME CATALOGUE.

The catalogues issued in the different branches of trade for 1891 show in many instances a decided improvement over those of 1890, high as the standard of excellence reached by some of them In that year was. It is a recognized fact that the seed trade leads all others in the beauty and cost of these publications. One now before us, sent out by Wm. Henry Maule, Philadelphia, Pa., well illustrates the truth of the above statement. We notice in glancing through its pages that last year Mr. Maule offered and paid \$1,500 in cash prizes for field and garden products raised from his seeds, and \$1,000 for the largest club orders for seeds sent him in 1890. He repeats these offers for the current year.

THE WATCH AS A COMPASS.

The following anecdote, taken from the London Truth, illustrates a use for a watch which will probably be new to most readers:

A few days ago I was standing by an Amerlcan gentleman, when I expressed a wish to know which point was the north. Taking out hls watch and looking at it carefully for a moment, he told me. I asked hlm whether he had a compass attached to his watch.

"All watches," he replied, "are compasses. Point the hour hand to the sun, and the south ls exactly half way between the hour and the figure twelve on the watch. For instance, suppose that It is four o'clock. Point the hand indicating four to the sun, and two on the watch will be exactly south."

Thinking that very possibly I was ignorant of a thing that everyone else knew, and happening to meet Mr. Stanley, I asked that eminent traveler if he was aware of this simple mode of discovering the points of the compass. He said that he had never heard of 1t. I presume, therefore, that the greater part of the world is in the same state of ignorance.

BEEN WELL EVER SINCE.

MR. EDITOR.—Years ago I saw in your valuable paper an advertisement of Rev. T. P. Childs, claiming to have a remedy for Catarrh.

I sent at once for his treatment, and can say was entirely cured in a sbort time, and have never had return of the disease.

I would advise all troubled with Catarrh to at once secure this valuable remedy. Information as to mode of treatment and prices, can be obtained by addressing Rev. T. P. Childs, Troy, Very truly yours,

J. W. M. WITT, Cedar Bluff, Ala.

Recent Bublications.

RHYMES OF CHILDHOOD, by James Whitcomb Rlley. Price \$1.25. Published by the Bowen-Merrlil Co., Indianapolis, Ind. An excellent collection of the poems of this wonderful genius.

CATALOGUES RECEIVED.

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Landreth's Garden Seeds, D. Landreth & Sons, Phlladeiphla, Pa.

Kansas Seed House, F. Barteldes & Co., Lawrence, Kan.

Quarterly wholesale price list for market gardeners and florists. Johnson & Stokes,

Phlladelphla, Pa. Stover Mfg. Co., Freeport, Ills., makers of Ideal" Implements and hardware specialtics.

Price List Trees and Plants, grown by John S. Calkins, Pomona, Los Angeles county, Cal. Catalogue of Pure-bred Poultry. Charles Gammerdinger, Columbus, Ohlo.

True Danvers Onion Seed.

My seed farms extend into Danvers, and I frequently buy of the best onion raisers there hundreds of bushels of their handsomest onions to plant to grow seed from, sometimes paying as high as five dollars a barrel. I offer such seed, all this year's growth and of my own raising, at \$3.00 a pound, with a discount on large quantities. Much of the onion seed sold is either too flat or too round for true Danvers. Choice Danvers carrot seed, \$1.08 per pound. Seed catalogue sent FREE to everyone. Address

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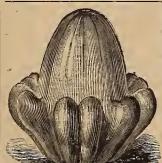
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IF YOU plant Ely's Seeds this year you will always want to plant them. In order to induce every one to give our seeds a trial we make this unprecedented offer, for 50 cts. in stamps or moncy we will send by mail, postpaid, one packet each of the following valuable seeds: New Dwarf Lima Bean, grows without the aid of poles, Early Blood Turnip Bect, Early Jersey Wakefield Cabbage, White Plumc Celery, fine quality, attractive, New Honey Sugar Corn, the sweetest corn grown, Early Green Cluster Cucumber, Perpetual Lettuce, tender and crisp, Emerald Gem Minskmelon, sweet, spicy, delicious, Green and Gold Watermelon, flesh beautiful orange color, Mammotb Silver King Onion, grows three-pound onions from seed first year, Improved Guernsey Parsnip, Coral Gem Bouquet Pepper, a novelty very ornamental, Japanese Pumpkin, the best for pies, Chartier Radish, best summer variety, White Pineapple Squash, excellent quality, Volunteer Tomato, early and excellent, New Zealand Fig Tomato, splendid for making figs, Extra EarlyMunich Turnip Vegetable Feach, fine for preserves. Sample packet Golden Beauty Corn, deep grain, small cob, has yielded 158 bushels per acre. In all, 33 Full Slze Packets, by mail, postpaid for 50 cts; two collections for 90 cts.; four for \$1.70. Illustrated Catalogue accompanies each order. Address FRANKLIN ELY, Doylcstown, Pn.

James Comment of the GET YOUR SEEDS FOR NOTH The package of seeds duly received, and we helieve it is the best prenium we everreceived for the money invested. M. P. RICE, County Supt. Lewiston, Ills.



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for one year's subscription to "THE AMERICAN HOME," and Ten Cents additional (60 cts. in all), to cover cost of postage and pack-ing on the seeds, and we will send you, postpaid, by return mail, your choice of either of the collections enumerated below.

21. Carnations, choice double,

sisting of 24 full-sized packets of flower seeds, as follows: 1. Gorgeous new Shirley Pop-2. Lovely Blue Torenla Four-

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7. Ipomœas, new ex. fine, mxd.

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9. Petunia Hybrida, superfine, mixed.

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13. New Royal Prize Pansies.

14. Brilliant Salvia Splendens (Scariet Sage).

15. Verhena Hybrida, extra fine, mix'd (Choic't Sel't Prize).

16. Phlox Drummondii Grandifora.

17. Glant Mammoth Zinnias.

18. The Giant Spider Plant.

19. Aquileglas, choice double, mixed.

20. Canterhury Bells, single, mixed.

mixed.

20. Canterhury Bells, single, mixed.

21. Carnations, choice double, mixed.
22. Hollyhocks, double fine, mixed.
23. Perennial Peas, mixed.
24. Sweet William, perfection, single, mixed.
26. LECTION B.—Embracing 30 generous packets of choicest vegetable seeds, making a complete kitchen garden for a small family, as follows:
1. The Matchiess Tomato.
2. Edmand's EarlyTurnip Beet.
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4. Tomhannock Lettuce.
5. Nichol's Medium Green Cucumber.
6. YellowGlobe Danvers Onion.
7. Japan Coral Flesh Muskmelon.
8. St. Vallery or New Intermediate Carrot.
9. New Red Etna Pepper.
10. Early Oval Dark Red Radish.
11. Holiow Crown Parsnip.
12. Long White Salsify or Oyster Plant.
13. Pike's Peak Squash.
14. Red Top White Globe Turnip.
15. Our Quality Pea.
16. Winter Cherry or Yellow Hask Tomato.
17. New Proffic Ger. Wax Bean.
19 best obtalnable, and very mar seseason. If purchased in separate;

GALENA, ILLS., Dec. 6, 1890.

Eds. American Home: It gives me pleasure to say a good word for the seeds received from you last spring. They were both excellent in quality and liheral in quantity. I like the paper very mnch. PHCEBES. NORRIS.

ELGIN, ILLS., Nov. 20, 1890.

Home Pub. Co.: The seeds were very fine. The tomatoes grown from your seeds were as large and fine as any I ever saw. We thought the offer a splendid one, for the paper alone is worth the price of both. Mrs. H. I. Cranston.

18. Stowell's Evergreen Sweet
Corn.
19. Golden Self-Blanch'g Celery.
20. Pride of Georgla Watermeion.
21. Red Wethersfield Onion.
22. Neapolitan Magglajola On'n.
23. Banana Pumpkin.
24. Louisville Drumhead Cabbage.

23. Louisville Drumhead Cabbage.
24. Louisville Drumhead Cabbage.
25. California Cream Butter Lettuce.
26. Golden Glohe Radish.
27. Large White Glohe Radish.
28. Extra Curled Dwarf Parsley.
29. Vandergaw Cahhage.
30. Sweet Marjoram.
COLLECTION C.—Consists of packets 1-12 of Coll. A, and packets in all.
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These Seeds are the very best obtainable, and very many of the varieties are novelties introduced for the first time this season. If purchased in separate packets you could not get them for less than \$2.35, and as a collection, any seedsman would consider them more than value for \$1; but we give either collection on terms named above.

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Smiles.

MY TYPEWRITER.

Whene'er I see her pretty face, Low o'er the key board bending, And watch her winning, girlish grace, To this old office lending A brighter gleam of sun and light, 1 can't think, I declare, That she's the girl with whom I fight About my work and swear. And as I watch her fingers pink, Fast flying o'er the keys, Half tenderly I sit and think Of what my fancy sees. And at the end of every day, When she, with whom I've battled, Has gone, to her machine I say:

GOING DOWN TO MARY'S. E was a queer old man who boarded the train at a small station in western New York. Two young men, who were probably his sons, brought him to the steps of the car and helped him on, and as he entered we saw that he leaned heavily on his cane and was very feeble.

"No wonder you get rattled!"

"The children kept at me till I shad to promise to go," he said, as he sat down. "Hain't bin down to Mary's in five years, and I've got so old I dasu't wait any longer. It's purty tough on an old man like me, but I want to see Mary aud the grandchildren."

"I take it you are going to spend Thanksgiving with your daughter," remarked the man on the seat ahead.

"That's it. Mary's my oldest gal. Got five of 'em, and all married off. She lives down at -, aud she would have me come and make a visit. Mary was allns a good gal, and she married a good man. You'll tell me when I git there, won't you?"

"Oh, yes."

"'Cause they'll all be there at the depot to meet me. My son Steve writ that I was

He had about forty miles to go and when we passed the first three or four stations, he was anxious for fear that he would be carried by the right one. After that he leaned over on the window aud fell asleep. Just before the train arrived at ----, the man who had spoken to him turned about and said:

"Come, grandpa, you get off here."

The old man did not move, and the stranger arose and shook his arm and said:

"Wake up, grandpa! This is your station, aud Mary and the children are waiting. Come,

But he spoke to the dead. The old man had died while he slept-passed away so peacefully that not a line of his face had changed. And we were yet stunued and grieving when Mary and her husbaud aud three happy children came hurrying into the car and shouted:

"Here he is. Here's our grandpa come to

spend Thanksgiving!"

But he was with his God.

A VALUABLE TIMEPIECE.

The hands of the clock reached twelve and a dozen bells seemed to ring out the hour. "Gracious," exclaimed Cholly, "I had no idea it was so late. Good-night." The girl gazed after him a moment and then

turned the hands back to 10:30.

"The man who invented this clock is a genius," she remarked gently. "It hasn't made a mistake yet in detecting a bore and scaring him away. Science is truly won-

RESTRICTED FREEDOM.

First little boy-"My pa's a Free-will Baptist; what's your's?'

Second little boy-"Mine says he's a Free Thinker, but I doubt it."

"Because he has to think about as ma says." -Texas Siftings.

NOT EXACTLY A PASTIME.

Bellows-"Does your daughter play on the

piano?" Old Farmer (in tones of deep disgust)-"No, sir. She works on it, pounds on it, rakes It, scrapes it, jumps on it, and rolls over on it,

WASN'T HIS OWN.

Johnsou-"Better bc careful'with your saw. If not, you'll run into a uail."

Jackson-"Oh, I dou't care how I use this saw: it isn't mine."

Johnson-"Whose Is it?"

Jackson-"Yours."-Yankee Blade.

but there's no play about it, sir."

WHAT SHE KNEW.

"Miss Amy, do you know anything of the game laws?

"Oh, yes, Mr. Dolley."

"What, for instance?"

"Never trump your partner's ace."

THE PHILOSOPHY OF PERSEVERANCE.

Parrott-"It's no use, Jack, for you to kick against the inevitable."

Borrowit-"But how are you to know that it is the incvitable until your kick is made?"

ANTI-POVERTY.

"I tell you the poor have no chance."

"That's particularly true in regard to poetry. I know some editors who reject poems for no other reason than that they are poor."-Brooklyn Life.

THE PRESENT TIME.

"What did your girl give you for Christmas?" "A hint."

"And what did you give her?" "The shake."-Philadelphia Times.

HIS PROPER SPHERE.

"If your son is such a natural born liar, why don't you make a lawyer of him?"

"He lies too well for that. He should be an explorer."

HIS PREFERENCE.

Mrs. Slimdiet-"What part of the chicken shall I give you, Mr. Goodfeed?" Boarder-"All but the neck."

LITTLE BITS.

Hunger is the best sauce, but it is unsatisfactory to be compelled to waste it on poor

The difference between repartee and impudence is the size of the man who says it .-Elmira Gazette.

Go to the clock, thon smart youth! Cousider how, when it begins to get fast it always gets a setback.-Buffalo Express.

The man who wrote, "Throw physic to the dogs," evidently did not belong to the Society for the Prevention of Cruelty to Animals.

The most bashful girl ever heard of was the young lady who blushed when she was asked if she had not been courting sleep .- Scottish American.

The following written definition of the word bachelor, was handed in by a fifth grade boy: "A bachelor is a man who has no wife nor wants no wife nor can't get no wife."-Luling

A cotton duck company in Baltimore has gone ont of business. We shouldn't think there would be any more demand for cotton ducks than for gutta-percha chickens, but the latter are frequently foisted on a purchaser.

The Arabs have no "Hello!" in their language. The nearest they come to it is to throw a stone and hit a man in the back, and then ask him, as he turns around: "Does it please heaven to give you good health this morning?"

"Lor', chil! what you chewin' dat flour bar'l top fur?"

"Be still, honey. De Jerus'lem band has dere annual fair nex' week an' given a prize fur de bes' pie eater. I'm a practisin' fur dat 'cashin."

Cumso-"I suppose Brown and his wife attracted the attention that newly married conples usually do."

Banks-"Oh, no; Brown married a widow, you know, and to avoid being suspected of being on a honeymoon trip, she took one of her children along."

First Worker (gloomily)-"Women are crowding Into every department of industry and lowering our wages."

Second Worker-"I ain't afraid of 'em." First Worker-"You're not? What are you?

Second Worker-"A cook."-N. Y. Weekly.

"It was a brave act, young man," said the grateful father, with deep feeling. "At the peril of your life, you rushed into the burning building and saved my danghter. How can I ever repay you?"

"Would a couple of dollars be too much?" suggested the brave rescuer .- Chicago Tribune.

At a Scotch fair a farmer was trying to engage a lad to assist on the farm, but would not finish the bargain until he brought a character from the last place; so he said, "Run and get it and meet me at the cross at four o'clock." The youth was up to time and the farmer said, "Well, have you got your character with you?" "Na," replied the youth, "but I've got yours, aud I'm no comin'."-Presbyterian Journal.

"Give me a large ham," said a customer, as he entered a grocery store.

"Very sorry, sir, but I can't do it," replied

the dealer.

"Why not? You have plenty here, and I am ready to pay for one."

"Oh, that's very different. You asked me to

give you a ham, you know."

"Oh, well, you needn't mind reaching it down. I'll buy it of a dealer who isn't quite so particular with his customer's language."-Chicago Inter-Ocean.



100 TUNES

Mention this paper when you write.

WE SELL DIRECT TO FAMILIES And make it easy for you to buy of us no matter where you live. Yes, my dear, your Marchal & Smith Piano is a delighful oue, the toue is so sweet and pure, the action so fairy-like, and the finish so elegant that nothing is left to wish for. Their organs, too, are as sweet and beautiful as their Pianos. ORGANS I wrote and told them just I wrote and told them just what I wanted, and they sent it to me, agreeing to take it back and paythe freight both ways if I did not like it, but I could not be better pleased if I had a thousand to choose from. They send their catalogue free to every one who wishes to buy. MARCHAL & SMITH PIANO CO., 235 East 21st Street, New York. \$150 PIANOS

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Selections.

ODD THINGS.

Fishes are weighed in their scales, And an elephant packs its own trunk; But rats never tell their own tales, And one seldom gets chink in a chunk.

Sick ducks never go to the quack; A horse cannot plow its own mane; A ship is not hurt by a tack, And a window never suffers from pane.

Dogs seldom wear their own pants, Which fact lays them open to scorn; No neplicw or niece fancies ants, And a cow never blows its own horn.

A cat cannot parse its own claws, No porcupine nibs its own quill; Though orphan bears still have their paws, A bird will not pay its own bill.

COST OF ISSUING MAGAZINES.

few readers of American magaziues," said a New York publisher recently, "know what it costs to produce eveu a single issue of one of the great monthly periodicals which now stand ahead of publications of their class the world over. The illustrations for the Century and Harper's magazines cost, on an average, about \$5,000 a month; but with these two established magazines the cost is rather diminishing than increasing, as both are using the 'process engraving' more and more. With Scribner's, on the other hand, large sums of money are being expended upon the engravings, as this periodical scems determined to equal its older contemporaries at no matter what cost. A careful estimate of the money spent iu illustrating the Christmas numbers of Harper's and Scribner's, puts the sum at \$7,000 each, as both contain about seventy pictures, the average being \$100 per engraviug. Many of the full-page blocks' cost \$300 each, and some of the half-page illustrations, which readers often pass by unuoticed, cost \$200 to \$250 each. These prices are easily accounted for when it is remembered that men like J. Alden Weir, Elihu Vedder, Will H. Low and A. B. Frost receive from \$100 to \$150 a drawing. Ten years ago the highest price paid for the same work was \$50 a drawing for a full-page illustration. To come to the literary matter: The expense for articles and stories, a large proportion of which is prepared to order, cost, on an average, \$25 a printed page, and I have known \$100 a page to be demanded. The fixed charges on the large magazine for literary and artistic matter alone are, therefore, from \$8,000 to \$10,000 a monthenough to eat up the profits on 100,000 copies.

CARE OF SHOES.

"When the leather in your shoes become old and begrimed with blacking, you will ascertaiu that the feet will be cold," remarked the old-time shoe seller. "Then it is time to cast aside the shoes and use them to wear beneath arctics, or for some other purpose. I have seen it referred to many times; but if you want to keep your shoes in good condition you should use vaseline on them often. The life will be kept in the leather, and, if rightly applied, you can shine the footwear just as well as if the preparatiou had never been used. Put it on at night when taking off the shoes. There is castor oil and the like oil also that will as well serve the purpose and keep your shoes and boots in good shape, imparting much greater warmth to the feet than if you allow blacking and the like to eat up all the life in the leather. When blacking commences to cake ou the shoes, wash them with plain water, no soap."

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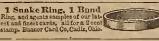
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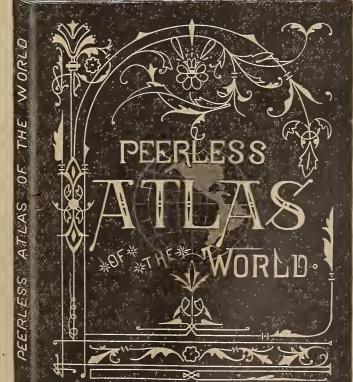
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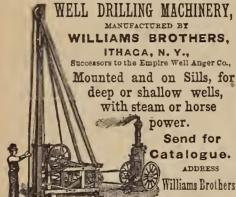
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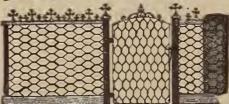


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VOL. XIV. NO. 10.

PHILADELPHIA, PA., and SPRINGFIELD, OHIO, FEBRUARY 15, 1891.

TERMS \ 24 NUMBERS.

The Circulation of FARM AND FIRESIDE this issue is

250.700 COPIES The Average Circulation for the 24 issues of the last 12 months, has been

250,708 COPIES EACH ISSUE

To accommodate advertisers, two editions are printed. The Eastern edition being 100,200 copies, the Western edition being 150,500 copies this issue.

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urrent omment.

HE following is an extract from the speech of the late Sccretary of the Treasury, William Windom, delivered the night of his death. To those interested in the money question, we commend the study of his broad, liberal and sound policy:

The Ideal financial system would be one that should furnish just enough of absolutely sound currency to meet the legitimate wants of trade, and no more; and that should bave elasticity of volume to adjust itself to the varying necessities of the people. Could such a circulating medium be secured, the gravest commercial disasters which threaten our future might be avoided. These disasters have always come when unusual activity in busluess has caused an abnormal demand for money, as in the autumn, for the movement of our immense crops. There will always be great danger at those times under any castiron system of currency, such as we now have. Had it not been for the peculiar conditions which enabled the United States to disburse over \$75,000,000 in about two and a half months last autumn, I am firmly conviuced that the stringency, in August and September, would bave resulted in widespread fluancial ruin.

I am thoroughly convinced that a better metbod can be devised, which will, in a large degree, place the power of expansion and contraction in the hands of the people themselves. The opportunity for securing such a currency may be found in our honded debt, which should, in my judgment, be in part exchanged for interconvertible bonds, bearing a low rate of interest, and always Interchangeable for money at the will of the

The quality of the circulation is even more Important than the quantity.

Believing that there is not enough of either gold or silver in the world to meet the necessities of business, I am an earnest bi-metallst, and concede to uo one a stronger desire than I feel for the free and unlimited coinage of silver, as soon as conditions can be reached through international agreements or otherwise, by which such coinage shall be safe. But It is my firm conviction that for this country to enter upon that experiment now would be extremely disastrous, and that It would result, not in bi-metalism, but in silver mono-metalism. I believe it would produce a swift and severe contraction and eventually reduce the market value of silver. When the silver dollar ceases to have more value than the bullion It contains, there will be little inducement to coin our own silver, and the cost of transportation will prevent its coming from abroad. How, then, will unlimited colnage either expand the circulation or enhance the value of silver?

The advocates of present free coinage insist that it shall not wait the slow process of mint operations, but that the printing-press shall be set to work providing certificates, to be issued for silver bullion, at \$1 for three bundred and seventy-one and a quarter grains,

When this consummation shall be reached, as surely it will be if unlimited coinage be adopted under existing conditions, the too ardent and impetuous lovers of silver will sadly realize the truth uttered by the wise King of Israel: "He that loveth silver shall not be satisfied with silver."

N the issue of FARM AND FIRESIDE for January 1, was published the Ocala platform of the National Farmers' Alliance and Industrial Union, frequently ealled the Southern Alliance. There is another organization of similar name with a large membership in the North and West. This is the National Farmers' Alliance, and it held its eleventh annual convention last month at Omaha, Nebraska. The following resolutions were adopted:

"Whereas, Owing to the oppression that has been put upon us by grasping monopolists, capitalists, trusts and combines, we believe it is time for actiou; and

"Whereas, The National Farmers' Alliance, in convention assembled, does most emphatically declare against the present system of government as manipulated by the cougress of the United States and the members of the legislatures of the several states; therefore, we declare in favor of holding a convention on Feburary 22, 1892, to fix a date and place for the holding of a convention to nominate candidates for the office of president and vice president of the United States. We declare that, in the convention to be held on February 22, 1892, representation shall be one delegate from each state in the union.

"Resolved, That we favor the abolition of uational hanks, and that the surplus funds be loaned to individuals upon laud security at a low rate of interest.

"Resolved, That we are unalterably in favor of the Australian ballot law.

"Resolved, That we demand the foreclosure of mortgages that the government bolds on

Resolved, That we discountenance gambling in stocks and shares.

"Resolved, That this Is an administration of tbe people, and in view of that fact the president and vice president of the United States sbould he elected by popular vote, instead of by an electoral college.

"Resolved, That as the farmers of the United States largely outnumber any other class of citizens, they demand the passage of laws of reform not as party measures, but for the good of the government.

"Resolved, That the Alliance shall take no part as partisans in a political struggle, as affiliating with Republicans or Democrats.

"Resolved, That the National Farmers' Alliance demands that the inter-state commerce law be so amended and enforced as to allow all railroads a reasonable income on the money invested, and we demand that the mortgages on the Union and Central Pacific railroads foreclosed at once, and the roads he taken charge of by the government and run in the interest of the people, with a view to extending both of these lines to the eastern sca-

"Resolved, That we favor the free and unof the currency be increased to \$50 per capita. We further demand that all paper money be placed on au equality with gold.

"Resolved, That we, as land-owners, pledge ourselves to demand that the government allow us to sorrow mouey from the United States at the same rate of interest as do the

"Resolved, That all mortgages, bonds and shares of stock should be assessed at their fair

"Resolved, That senators of the United States shall be elected by vote of the people.
"Resolved, That laws regarding the liquor traffic should be so amended as to prevent endangering the morals of our children and destroying the usefulness of citizens.

"Resolved, That we favor the passage of the Conger lard bill.
"Resolved, That we believe women bave the

same rights as their husbands to hold property, and we are in sympathy with any law that will give our wives, sisters and daughters full representation at the polls.
"Resolved, That our children should be ed-

ucated for honest lahor, and that agricultural colleges should be established in every state. "Resolved. That we favor a liberal system for pensioning all survivors of the late war."

In some particulars the two platforms are alike, in others very different. Although the National Farmers' Alliance demands the abolition of national banks, fact. Farm implements are commonly jority of the delegates.

the inflation of the currency and government loans on land security, it does not indorse the sub-treasury scheme, the first and main object of the Southern Alliance.

The Omaha platform takes advanced grounds in politics. Although one of the fundamental principles of the organization proscribes partisan methods, it boldly declares against both old parties and in favor of putting a presidential ticket in the field in 1892,

We hope these two organizations, together with all other agricultural orgauizations, will unite on a sound platform. Strike out the impracticable planks, knock out the impracticable demagogues, unite on one strong, sensible platform, and the farmers can easily make a clean sweep of the political field.

HE following article on the removal of the Ohio Experiment Station, sent to us by the director, fully explains itself:

"The Ohio Experiment Station has hitberto occupied a portion of the farm belonging to tbe Ohio State University. This farm lies within the corporate limits of the city of Columbus, and the growth of the city around it during recent years has made it apparent that the farm cannot much longer be used for agricultural purposes. The streets bounding the farm on the north and south have been paved with asphalt during the past summer; the opening of the Neil avenue, a street run-ning north and south through the entire length of the farm, has been decided upou; a great intercepting sewer has been constructed through the farm and more are to follow.

"Recognizing that these encroachments of the city must result in the removal of the station to cheaper and more suitable lands within a few years, the Board of Control, after consul-tation with the trustees of the university, has unanimously decided that measures looking toward such removal should now be insti-

tuted.
"A bill has therefore been introduced in the egislature by Mr. Cromley, chairman of the committee on agriculture of the House of Representatives, authorizing the commissioners of any county in the state to propose a tax for the purpose of securing the location of the experiment station within the county. The bill provides that the tax shall not exceed one mill on the dollar in any one year, and that it shall be divided into ten annual installments; but no tax shall be levied for this purpose unless such tax be approved by a majority of the votes cast at a special election to be held for the purpose of voting upon this question. It is believed that the experiment station may not only be of incalculable service to the farmers of the county in which it is located, by demonstrating what may be done on their own soils, but that it may reuder a much greater service to the agriculture of the state at large by being located upon soils more irgei representative of the average soils of the state than are those of the farm upon which it is now established."

- SUBSCRIBER writes: "You quote the Farmers' Call as saying the large majority of manufacturers of agricultural machinery could sell to the foreigu trade for twenty per cent less than to the home trade, and yet the foreign trade would net them as much. Now, you and the Farmers' Call either know that is not so, or you do not know what you are writing about. I know something of the way farm machinery is sold in the West. The manufacturers sell machines at an enormous profit and take pay in notes drawing 10 to 12 per cent interest, and secured so that payment is as sure as taxes or death. And cases of their losing anything are as rare as their charity towards any poor unfortunate who, through sickness or loss of crops, is unable to meet his payments. Now, as the above is the fact. how is the foreign trade at 20 per cent discount, as profitable as the home trade?"

In the first place, the above is not the

sold to the home trade on credit, on four, six, twelve or more month's time, with interest after maturity. Our correspondent incorrectly assumes that all these notes are paid. That is very far from the fact. We have in mind a prosperous firm that makes agricultural implements. That firm now has on hand over six hundred thousand dollars of worthless farmers' paper. How was it possible for that firm to prosper instead of being swamped? Who paid for the machines bought with these worthless notes? The farmers who paid for the machines they bought, paid for the others also. The manufacturers made the selling price of the machine high enough to cover losses from bad debts. If they could get spot cash from the home trade as from the foreign, with no bad debts, no costs of collection, no capital locked up in implements sold on time, no notes to carry, and with none of the other cvils of the credit system, there is no doubt that a majority of manufacturers could profitably sell their machines twenty per cent cheaper than they do. Our correspondent falsely assumed that the article from which he quoted was written in defense of the manufacturers. Not so, but in the interests of the honest puachasers who, in paying for their machines under the credit system, paid all the profits of the manufacturers, and paid their unfortunate or dishonest neighbors' debts besides.

NE of the most important meetings ever held by Ohio farmers was the third annual convention of the State Alliance at Galion last month. The convention was under the control of sensible, level-headed men, and the platform, taken all in all, is the soundest yet put forth by the Farmers' Alliance. The convention rejected a resolution offered in favor of the government issuing legal tender notes on real estate.

The silver plank adopted differs from the usual one in Alliance platforms. It demands "the free and unlimited coinage of silver, with the understanding that the government purchase all the silver bullion produced in the United States, which is offered at market rates. But, in case the government coms the bullion, it shall be entitled to the difference between the metal value of the silver dollar and its coin value." That will not suit the silver mine owners and silver speculators.

One plank demands that freight rates be reduced in proportion to the reduced value of farms and farm products, and that passenger rates be fixed at two cents per mile. In response to this demand, two bills have already been introduced into the Ohio legislature. We believe that the railroads would gain in the end by fixing passenger rates to all at two cents per mile. Those who do the most traveling now use thousand-mile tickets at that rate, and a reduction would be followed by a large increase of local passenger

In case the state and national legislators do not heed its just demands, the Ohio State Alliance resolves to co-operate with other reform organizations in the formation of a people's party, to euforee their just demands with the ballot.

Some cranks, extremists and political demagogues were at the convention and persistently endeavored to run things their own way, but signally failed, to the credit of the good, hard sense of the ma-

FARM AND FIRESIDE ISSUED 1st AND 15th OF EACH MONTH BY MAST, CROWELL & KIRKPATRICK.

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Our Farm.

COMMENTS ON CURRENT AGRICULTURAL LITERATURE.

BY JOSEPH (T. GREINER).

WEET POTATO DISEASES.-MV personal experience in sweet potato culture has not been enough to make me an expert. While in New Jersey I have grown them every year on the limited scale of the home garden, and this quite successfully. Re-

peated trials in western New York, however, never turned out to be satisfactory, and I have given up the idea of growing what I can buy much better and cheaper. In no case have I noticed any form of malignant disease in my patch, only now and then a rotten specimen in storage. Many patches of commercial growers, however, are suffering more or less from rots and blights; and for this reason, Prof. Byron D. Halsted's illustrated treatise on "fuugus diseases of the sweet potato" (Bulletin 76, of the New Jersey Agricultural College Experiment Station, Brunswick, N. J.,) will be welcomed by a large number of growers. The only sad thing about it is that at this stage of the investigation only few and incomplete suggestions can be made in regard to treatment, either preventive or remedial.

The soft rot, a true mould, well known to every sweet potato grower (to his sorrow), usually appears most destructive in the store-room, rendering the attacked roots quickly soft and worthless. The tough and unbroken rind in a measure discourages the entrance of the rot fungus, and the latter gaius access through the upper end of the potato and through cuts, wounds and breaks of the skin elsewhere. The disease is readily communicated from one potato to another one near it. It always comes from without the plaut; and this suggests the importance of being careful in the harvesting and subsequent handling. The less the skiu is broken, the less danger there will be from this soft rot. A moist atmosphere also favors its development. Therefore, it is advisable to store in a well-ventilated, artificially warmed room, that maintains a constant temperature of not far from seventy degrees, or about that of a living-room. Growers of sweet potatoes who keep their crop for the late market, or hold the roots until spring, are pretty much agreed that to avoid the soft rot, a stove or furnace is an essential part of the furniture of the storage cellar.

The black rot, also well known to all sweet potato growers, and perhaps the most destructive of all these diseases of the crop, is fortunately dry and inoffensive. It usually shows itself in the roots at digging time; but many of them are so 20.8 cents, and the Ayrshires of 0.73 reference to them, as not being germane to turn, does make a large tree, it is

little affected that they find their way into the market, and any loss from the increase of the decay falls upon the middlemen and consumers. Unfortunately, no remedies have yet been found, or can even be suggested.

The soil rot, the real nature of which is not yet definitely known, enters the potato through the tender substance of the fine roots. Sometimes it is very destructive. No remedies can yet be suggested, but the adoption of a long rotation, so that sweet potatoes come as a crop many years apart, is probably the most practical method of getting the field clear of the destructive soil rot.

In the so-called stem rot the vine dies at or near the surface of the ground, aud from there the decay extends down to and for a short distance into the potatoes, also in the opposite direction along the vine to the end, or at least to a point where the vine has taken root. The line between the decayed and healthy portion of the root is sharply drawn. The germs are in the soil, and inoculation is direct. As with the soil rot, the selection of manure may have some influence; but the same precautions (adoption of long rotation) as with the soil rot, will most likely give satisfactory and the most certain results.

White rot and dry rot have not yet become common or troublesome, and no remedies are as yet known. Scurf discolors the surface of the roots, and while reducing the market value of the potato, does not cause the destruction of the root, and therefore is no occasion for alarm.

Leaf blight and white mould attack the leaves, but are comparatively harmless enemies. If it becomes necessary, they might be fought by spraying with copper solutions.

BEST BREED OF COWS .- The results of experiments made with different breeds of dairy cows at the New Jersey Experiment Station (reported in Bulletin 77), are interesting and instructive. Representative animals of the following breeds: Avrshire, Guernsey, Holsteiu-Friesian, Jersey and Shorthorn, carefully selected by their advocates, were used in these experiments, which, it seems to me, might have been still more valuable had the ordinary run of farm cows found representation. It is also to he regretted that the experiment was suddenly interrupted by the buruing of the entire herd in the barns of the Agricultural College on the evening of November 2, 1890.

The average seller of milk is mostly interested to know what breed will produce the most milk, and this at the lowest cost for food. The Ayrshire cows produced a daily average each of 9 quarts, at an average cost of food per quart of 1.66 cents; the Guernsey cows 8.7 quarts, at a cost of 1.71 cents; the Holstein-Friesians 11 quarts, at 1.75 cents; the Jerseys 84 quarts, at 1.91 cents; the Shorthorns 9 quarts, at 1.71 cents. In the case of the Holsteins, the cost of the food was considerably increased by the fact that the amount of coarse fodder eaten by them was greater than in the other breeds and consisted largely of timothy hay, one of the most expensive foods eaten, which probably did not materially aid in milk production. The conclusion we must arrive at, from these figures, is that the Holsteins yield the greatest quantity of milk, and should be selected where that is the sole object. The Jerseys give the smallest quantity, and this at the greatest cost per quart.

The greatest average daily amount of solids in the milk also had to he credited to the Holsteins (2.95 pounds against 2.68 pounds to the Jerseys), hut at a slightly greater average cost of food per pound (6.2 cents against 6.0 cents). At the same time, it must be said that the Holsteins give the lowest average per cent of solids in the milk, and only the much larger quantity of the milk produced overbalances this. In other words, the Holsteins give the greatest quantity of milk, but also the poorest in quality.

When it comes to the average daily amount of fat (butter), the tables are turned. The Guernseys produced an average daily amount each of 0.97 pounds, at an average cost of food per pound of butter of 15.3 cents; the Jerseys of 0.90 pounds, at an an average of 17.9 cents; the Holstein-Freisians of 0.86 pounds, at 22.4 ceuts; the Shorthorns of 0.74 pounds, at

pounds, at 20.6 cents. The cost per pound of butter fat, as a rule, is therefore greatest in the breeds whose average daily yield of milk is the largest. The farmer who keeps cows for cream or butter will find Guernseys most profitable, and Jerseys next. He does not want the Holsteins, even with their immense quantities of milk. For a family cow, we want the Guernsey, Jersey heing second choice.

CROP FEEDING .- Many of our leading fertilizer manufacturers, among them the Mapes Formula and Peruvian Guano Co., Bowker Fertilizer Manufacturing Co., Williams & Clark's Co., etc., have embodied quite valuable information on agricultural topics in their annual catalognes. Indeed, it seems many of these firms are running a race to see who can bring out the most valuable and interesting matter. All this is done, of course, to attract the attention of farmers, and to gain their patronage. This is legitimate on their part; and on the other hand, every progressive farmer, especially if a consumer of concentrated fertilizers, should take advantage of so good au opportunity to get valuable information that costs nothing to him but a postage stamp or postal card for the application.

A Baltimore firm (W. S. Powell & Co.) has just sent me a copy of their A B C of Agriculture. This is an especially meritorions work of this kind, treating on a great variety of subjects which the farmer aud gardener should know. In a general way, I would say that we hardly appreciate the catalogues of our manufacturers, seedsmeu and supply dealers, as educational agents, so much as they deserve. A good supply of such catalogues is a library in itself, and ordinarily quite a reliable source of information, if we make due allowance for some exaggeration that may be found here and there in the description of the article offered for sale.

ERADICATION OF THISTLES .- The Illinois Agricultural Experiment Station (Champaign), in Bulletin 12, treating on field experiments with oats, suggests a line of treatment for killing Canadiau thistles, which will be especially interesting to many eastern farmers. It is as follows:

"Cnt the thistles when in full bloom (July), as close to the ground as possible. Plow about three iuches deep and sow millet or Hungarian grass, seeding heavily; harrow. This may follow the preceding at once or after some two weeks' delay. In September plow under the crop, or save it for hay, as desired. At all events, plow and seed liherally with rye. Plow under the rye in May and seed again with millet or Hungarian grass; or plant to some hoed crop (corn), and give the most thorough cultivation, with continued searching for and destruction of every remaining thistle. Continue the clean cultivation and sharp lookout for thistles another year."

From my own experience with the thistle nuisance, I should expect the treatment to be effective.

FURTHER NOTES ABOUT ORNAMENTAL PLANTING.

In the issue of Nov. 15, 1890, my esteemed friend, Mr. Pierce, kindly reviews my suggestions for planting a city lot, in issue of Oct. 15, and points out therein some very "prominent errors."

In the first place, as stated at the outset, my recommendations were made in as general terms as possible in order that a with this because, however desirable it is wide application neight be made, with whatever variations individual cases might require. In ridiculing the planting of five apple trees and inviting attentiou to some large trees in Ohio, Mr. P. seems to have overlooked the fact that I decidedly advised using the dwarf apple and other trees, which in many years would not cover the space given them.

In the matter of walks, our critic caunot see the object in having them vary in outline nor the utility of having them occupy so unch space, doubtless because of being familiar with the foot-wide walks in country villages and on many farms where the users walk single file. In a city, the walks are something which people insist on having roomy enough for several persons to walk side by side and not drag their dresses in the grass or in the snow. Again, where one likes walks of a uniform width from the street to the door, they are welcome to them, but that is no reason why all must be so arranged. As to dimensions for gates, steps, etc., Mr. P. does his own estimating, as I made no

the subject; but he is assured that to see them of the widths he mentious is not at all uucommon to city people. This matter of estimating is also true as to the size of the house, the width of the lawn, etc. I did not deem it necessary to go into detail, else I would have said that the house, as plainly shown in the illustration, uses but little more than half of the width of the lot instead of his figure of twenty feet.

As to the placing of the rear walk, this is simply a matter of opinion; the probability is that if it followed close to the house in straight lines, those who use it the most, butcher boys, grocers and others who deliver articles, would cut across the corners, leaving bare paths in the lawn, which would be far more objectionable than having some grass on each side, wherein several trees might be accommodated, more for the purpose of breaking up the monotony of the bare walks than anything else.

Magnolia speciosa was not said to be the most desirable or the best, and instead of being hard to get it can be obtained from any well-stocked unrsery, cheaper than almost any other sort. The main reason for my recommendation was that it blooms some later than other kinds, hence it is not so liable to be injured by late spring frosts, which are troublesome in many sections where readers of this paper reside. It is true that under the most favorable conditions it may reach the size mentioned by Mr. P., but Ellwanger & Barry say that the average size of this (one of the smallest magnolias) is from nine to fifteen feet.

Simply because in bed fonr, which lies uext to the line of the adjoining lot, I mentioned that Norway spruce pines, firs, etc., might be useful at the rear as a screen for the back yard during the winter, Mr. P. emphatically coudemns the whole arrangement because it is beyond his ken. This probably arises from the fact that he knows no other way than to plant this bed (which is, at its widest part, seven feet across and about thirty feet long) as full as possible of the large growing evergreeus and sticking small hardy plants between them.

This is not the modern method of planting such beds or borders. Of the four evergreens mentioned, perhaps only one of each, by any good planter, would be used, while a dozen or more of the dwarf forms would be planted, many of these not requiring any more if as much room as a thrifty rose bush; and among these it is no difficult matter for the herbaceous plants referred to to thrive. Mr. P. may urge that no meution of these dwarf kinds was made in the article; and this is true, simply because in such limits proper attention could not be given cach detail and no claim was made for its being done.

With regard to the other beds, he falls into the error of supposing that everything mentioned must be used, when my intention was to give a list, by no means complete, from which suitable subjects might be selected. Again it is evident from the measurements given, that Mr. P. would advise that large growing conifers should be allowed to grow naturally, even in a city lot where at best nearly everything must be artificial. I do not agree to have naturally grown trees where the grounds are of ample size, yet in a small place this cannot be done; they must be kept down to a moderate size by means of

Mr. P. says, in effect, do not have any evergreens. This dictnm is all right, but most people want them and I believe them desirable, even in small places, because of their cheerful winter appearance and general contrast; and in planting them we have to do the best possible under the circumstances. Than the inexpensive spruces, pines, firs, hemlocks, etc., no trees can be finer, when kept in pyramidal shape, well clothed with branches down to the ground and of a small size by the use of the shears.

The question of protection in my article was not referred to, but our able reviewer seems to discover that that was the sole purpose of my use of evergreens, judging by the space he devotes to the matter. About the finest of our ornamental trees, the cut-leaf birch, Mr. P. urges its size as an all-sufficient objection. Because it, in the only tree of any considerable size that was to be planted in my plan and would have space for development.

Of the hundreds of theso trees which I have observed in the city of Buffalo aud elsewhere, in small lots as well as in large places, I have yet to see one which has seemed out of place or too large for its situation; and I do not believe that it would be too large for the position recommended.

Our discerning friend also discovers that I believe the true place for a bed of coleus to be in the midst of gravel walks, whereas, in fact, the use of this foliage plant is only given as one of seven alternatives for use in that spot, the one which I chiefly urged being a vase of flowering plants. Mr. Pierce refers to the marvelous growths which certain shrubs on grounds near my home have inade in two years, and this time he has the facts on his side. I also am aware of the strenuous effort put forth by the owner to attain just such results, as I superintended the whole matter, planting most of them myself, but I can further assure my friend P. that not on one place in a hundred will anything like that degree of growth be had, simply because the proper conditions are not supplied.

The statement by Mr. Pierce that "rhododendrous are especially suited for such places and thrive better than the coniferæ," I consider decidedly misleading as regards our climate north of Washington, for it is a fact that cannot be controverted, that more money has been wasted by people generally on these plants, with the least satisfactory results, than is the case of any other one plant. In the first place, the most of those hitherto sold have been too tender to withstand our winters, particularly away from the seashore. Even now the sorts that are advertised as being entirely hardy, are not so unless one has excellent facilities for caring for them, or they are planted in a particularly favored situation.

It is true that about Boston there are some magnificent plantations, but they are near the sea, have favored situations and many men are employed to see that they are prepared for the winter in the most thorough manner. Again, although while in bloom they are showy, yet the hardiest have a very limited range of dull colors, and in attractiveness do not begin to equal many flowering shrubs which are not nearly so expensive, and in winter beauty, cannot approach the ever-ELMER E. SUMMEY. greens.

SOME QUERIES ON FERTILIZERS.

BY JOSEPH.

BONE PHOSPHATE.—Several subscribers want to know what is meant by "bone phosphate." One fertilizor man, for instance, gives the analysis of dissolved South Carolina rock or acid phosphate thus: "Phosphoric acid 13 to 15 per cent, equal to bone phosphate 30 to 34 per cent," thereby creating the impression in the minds of some that there is a greater fertilizing value in this phosphate than in one having simply 13 to 15 per cent soluble phosphoric acid. Bone phosphate is only another term for "phosphate of lime" as found in bones. The dried bones of animals contain about 57 per cent of this phosphate of lime, of which a little less than one half is phosphoric acid. There is no need of taking any note of this "equal to bone phosphate." All we want to know is the percentage of soluble phosphoric acid; and this is valued at 8 cents a pound, whether derived from bone or

SULPHATE OF POTASH.—I have also several inquiries about the meaning of "equal to sulphate of potash." In one analysis we find this: "Potash 6 to 8 per cent, equal to sulphate of potash 12 to 15 per cent." What we understand under the term "potash," is simply potasium oxide, a compound of two atoms of potasium and one of oxygen. This substance combined with sulphuric acid, gives us the "sulphate of potash." Our measure of value is potash or potasium oxide; but as we rate this differently, according to the different combinations in which it appears, the additional information "as sulphate" or equal to sulphate of potash, so many per cent, will give us a clue to its proper rating. Iu our schedule of valuations, potash as muriate, or in kainit is quoted at only 4½ cents a pouud, while in sulphate it is worth 6 cents per pound. There is, howage of sulphate of potash. This can only serve to make the matter more complicated and the information misleading. Our fertilizer men should simply put it 'potash (as sulphate) 6 to 8 per cent." Then we know we have in a ton of such fertilizer from 120 to 160 pounds of potash at 6 cents per pound, or from \$7.20 to \$9.60 worth in each tou.

HAVING ANALYSES MADE.-Will the Department of Agriculture analyze samples of fertilizers when requested? think not. But many of the state experiment stations do. In Bulletin 25 (new series) of the New York Agricultural Experiment Station, Geneva, N. Y., appears the following paragraph:

"The stations will continue, as in the past, to make analyses of commercial fertilizers for farmers, without charge, on the following conditions: (1) That the samples are taken by consumers from stock of present season, and iu accordance with the station instructions for sampling. (2) That the samples are fully described on the station Form of Descriptions of Sample or otherwise, as may be required. (3) That the station is free to publish the result, if it sees fit. Instructions and forms for taking samples will be sent on

The stations were created for the very purpose of aiding agriculture, and they are supported by the people's money. If people think it would be in their interest to have an official analysis made of any fertilizer on the market in their vicinity, and when such analysis has not already been made by the station of their own state, they should by all means tell the station frankly of their wants. A request of this kind would in all probability find due consideration. I further believe that it would be better both for the farmer and the stations, if there were a little free inter-relation between both. The farmer, by appealing to the station in many of his troubles, might often find most welcome assistance; while the station at the same time receives suggestions just as welcome, about the ways it can be of use to the farmer.

FERTILIZER FOR POTATOES.-What percentage of the three chief plant foods a fertilizer for potatoes on a poor clay soil should contain, is more than I or anybody else can tell, unless we know something more about that soil. If it is deficient in all the chief elements, we must apply a complete fertilizer; and in such case I would use one having 3 to 4 per cent nitrogen, 6 to 8 per cent phosphoric acid and 8 to 10 per cent potash. If one or the other of these plant foods is yet in fair supply in the soil, as may be told from previous tests, or perhaps by other indications, this particular one need not be present in the fertilizer. The complete fertilizer (analyzing as mentioned) will be the safest, although it may not be the cheapest. Good composted stable manure will also be found to have about the right proportions for a "fertilizer for potatoes on poor clay soil."

OAK BARK ASHES .- I have no knowledge of an analysis made of fresh, oakbark ashes; but as the bark of trees is usually richer in potash than the bodywood, and our hard oak ashes contain a high percentage of potash in themselves (often over 9 per cent), we will not be far out the way if we concede to it 9 to 10 per cent potash, with perhaps 11/2 per cent of phosphoric acid. I think we could afford to pay \$12 or \$14 for such ashes. On the other hand, ashes of spent tan bark have only a small per cent of potash and phosphoric acid and are variable besides. A ton should not cost us over \$3 or \$4 at the most.

CULTIVATION OF THE HARDY HIBISCUS.

Some time ago I noticed this inquiry: 'Why did my hardy hibiscus fail to flower? There were many buds, but when nearly ready to open they all blackened and dropped off."

Last spring, in putting out roots that had been separated, the ground was well crowded and it took some time to get such locations as I wished. There was a very nice root left and no place to put it. The rest had good, sunny locations, and as I did not wish to throw it away, I planted it on the north side of a large cherry tree. thinking perhaps it would make root if not flower. You recollect we had a very hot and dry summer, with a cool and showery

now aud then a straggling, dwarf flower, with the exception of the one in the shade of the cherry tree; it did seem as though the dear thiug was on a strike on its own motion. I took the rule aud measured many of the flowers that measured across their petals seven or eight inches, and the plant kept right on. The rain would come and spoil its beauty, slit aud drabble its gay dress, but when the sun came out and the breeze shook off the moisture, then it would laugh and frolic with such glee as only flowers can; and when frost camo it was still crowing in its gladness for the shade.

In cultivating the hardy hibiscus, some pinch off the stems when they are about two feet high; this gives them many laterals, but the flowers are correspondingly small. It is true you get more flowers, and perhaps cover more space with its beauty, but if you wish to see hibiscus in all its glory, let the stems grow-six feet if it wishes. Firmly stake it, so that the wind will not break it nor the raiu beat it down. Mulch it with muck from the swamp; if its roots are set in the muck, so much the better. Give it shade, with a bucket of water now and then about its roots, and it will thank you with a thousand flowers. G. G. M.

Marcellus, Mich.

ORANGE GROWING. "There is nothing so interesting to me as the planting of an orange tree. In planting the apple, pear, plum or peach, it is with the consciousness that in a few years there will be no trace of your labor. In planting an orange tree, you have the feeling that you are working for posterity."-Interview with B. H. Warder, after a visit to Florida.

The orange tree grower becomes an enthusiast. He watches the tree as he does a child. He will tell you the cause of its faulty growth and the remedy he applies. He consumes the midnight oil in studying the proper proportions of nitrogen, phosphoric acid, potash and lime necessary for growth of tree and quality of fruit, and whether best applied in stable manure, cotton-seed meal, raw bone, Florida phosphate, Thomas slag, kainit, muriate or sulphate of potash, fish scrap, muck, Mapes, Bradley or other formula. He will point out to you the habits of the trees on which grow the Washington Naval, the Jaffa, the Mediterranean Sweet, the Maltese Blood, the Homasassa and scores of other varieties, and descant upon the qualities of different citrus fruits, as he did in New York upon the Early Harvest, Belleflower, Seek-nofurther and other varieties of apples. He will tell you of the possibilities of the high pine land in the healthier and longer lived tree and in the healthier and longer lived culturist; and his greater freedom from malaria and the ever-industrious mosquito, contending that the ills he escapes, endured by his hummock neighbor, are more than an equivalent for the increased fertilization required. "Deliciously exhilarating," he will tell you, is the labor of turning a Florida wilderness into the prolific orange grove.

The above thoughts have been suggested by the transformation of a comparatively uninviting pine woods and oak scrub, forming the site of Interlachen (between lakes) in 1882, and its fourteen hundred acres of orange trees in 1890, a good many already in bearing, and that in a few years will produce many fold the annual income of the cereal products of the middle and western states; and if cared for will continuo to do so down the ages. The first orange tree brought into Europe is still said to be bearing fruit, and the age of a single tree has been traced back seven hundred years. So that the planter of an orange grove may well feel that he is working for posterity.

G. W. HASTINGS.

THE COW AND THE BARB.

Animals learn easily or remember well, especially if in the learning they are frightened or injured.

A farmer's most valuable cow was a jumper. She led the herd, and often led it out of the pasture when the feed was short. The head-board and the hobble had been tried, but these interfered with her freedom and lessened her product.

At last the farmer decided to run a single barbed wire over the tops of fences, ever, no earthly use of giving the percent- fall. My hibiscus all budded full, with making them too high to be jumped. No

accident was likely to occur from a cow's attempt to jump the fence regardless of tho wire, because every cow "explores" before she jumps.

While the farmer was stretching the wire, the jumpor came along, and going up to a part completed, placed her head over it and began to rub the under side of her neck. At last she caught a barb that tore the flesh and drew blood. With a snort, she ran away a hundred yards, and then stood looking toward the place where she had felt the barb.

She did not jump out of the pasture again or attempt to. Whenover the cow "nosed around" preliminary to jumping, she found tho wire or the barb, and withdrew at once, apparently remembering what she had suffered.

GEORGE APPLETON.

DILUTING FRESH MILK FOR CREAM RAISING.

Perhaps the most valuable lessons learned in the dairy world during 1890, were taught by the failure of the ice crop of last winter. Creameries and many large dairies had become so accustomed to a plentiful supply of ice that they had come to think they could not get along without it. But experiment and experience have discovered that by diluting fresh milk 25 per cent with either warm or cold water. the time of cream raising may be so much reduced as practically to do away with the necessity of using ice for creaming milk. The lesson is of great value and has already been the means of saving many dollars; and, rightly used, may be the means of saving more. We do not know of any carefully conducted experiments bearing upon the point, but from the few observations made ourselves, we are inclined to thiuk that those who have made really good butter without the use of ice will find that it keeps sweet longer and stands up better when exposed to the air, than butter made with ice. When ice is abundant it is apt to be used too freely, and the milk, cream and butter be made too cold. Whether or not diluting the milk has any influence on the churnability of the cream, remains to be tested, so far as we know .- The Jersey Bulletin.

THE FOOT OF A HORSE.

The foot of a horse is one of the most ingenious and unexampled pieces of mechanism in animal structure. The hoof contains a series of vertical and thin laminæ of horn, amounting to about five hundred, and forming a complete lining to it. In this are fitted as many laminæ belonging to the coffin-bone, while both sets are elastic and adherent. The edge of a quire of paper, inserted leaf by leaf into another, will convey a sufficient idea of the arrangement. Thus, the weight of the animal is supported by as many elastic springs as there are laminæ in all the feet, amounting to about four thousand, distributed in the most secure manuer, since every spring is acted on in an oblique direction.—Exchange.

WINTER RATION FOR SHEEP.

Not only is it true that sheep kept confined in winter and fed to be fattened, relish a chauge of diet, but they also generally gain faster on a diversified ration. Thus, of linseed oil-cake meal alone it takes six pounds, according to the English experiments, to produce a gain of one pound of flesh, while of the meal and peas mixed it requires only four pounds. An excellent daily ration for a sheep of the mutton breeds was found to be one pound er hay, four ounces of finseed meal and nineteen and a half pounds of mangels.—American Sheep-Breeder and Wool-

Prepare for Spring

in preparation for the change to spring season. If you have not "wintered well," if you are tired out from overwork, if your blood has become impure from close confinement in badly veutilated offices or shops, you should take Hood's Sarsaparilla at once. It will purify and vitalize your blood, expel all germs of disease, create a good appetite, and give your whole system tone and strength.

"I was very much run down in health, had no . strength and no inclination to do anything. been taking Hood's Sarsaparilla and that tired feeling has left me, my appetite has returned. I am like a new man."-CHAUNCEY LATHAM, North Columbus, Ohio.

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100 Doses One Dollar

Our Farm.

NOTES FROM MY HOME GARDEN. BY JOSEPH,

EARLY POTATOES.—Now nearly a year ago, a frieud in Minnesota sent me three specimeus of a new seedling potato, under the claim that they were earlier than anything uow growu. These tuhers were the most beautiful I ever saw, so even, so perfect; colored a russet-white. I planted them with great expectations. The plants made an early and extremely vigorous growth, and produced a fine lot of potatoes.

While I by no means was ready to endorse the originator's claim of superiority in earliness to all others, I had received such a favorable impression that I spoke to a Philadelphia seedsman (Wm. H. Maule) about it; and what should he do but look up the record of the new variety, buy the whole stock, call it the Freeman (after the originator), and offer it in his catalogue at §3.00 a pound.

I have no objection to this, for my faith in the Freeman is very great; but the trouble is that my friend Maule tells of my experience with the potato in his catalogue, giving my full address; and now comes letter after letter, asking me whether I have any of the Freeman potatoes to sell, and at what price, and if I would not please reveal the address of Mr. Freeman in Minnesota. Some of these letters had stamps enclosed, others had not; and I am expected to reply to a lot of letters and spend time and pay for stationary and stamps, in a matter that really does not beuefit me iu any way. But then, I am a patient sort of a fellow; so I have made answer, in every instance, to the effect that I have no potatoes of the Freeman to sell, and that I am not at liberty to give Mr. Freeman's address. So far as I understand it, Mr. Freeman has no right to sell any potato of this variety except to the introducer, who owns or controls the entire stock.

It will do no hurt to call people's attention, occasionally, to the propriety of enclosing stamp for postage, if they expect an answer in their own interest. I think it would be still more just and to the point if another stamp were enclosed for stationary. All such things cost money, and we should not be expected to incur expense for the privilege of spending our time in replying to letters for somebody else's exclusive benefit. I will add that the readers of FARM AND FIRESIDE, when writing to us and expecting a personal reply by letter, have seldom been guilty of neglect in this respect. When reply is to be given through the columns of the paper, postage, of course, is not required.

The Freeman potato is the same one which our friend, Mr. T. B. Terry, of Summit county, Ohio, the great potato specialist, tells so much about in some of our agricultural papers. He is to plant a barrel, agreeing to sell the entire product for a stipulated sum per bushel. The seed is precious, and Mr. Terry wants to grow the largest possible number of bushels from the seed without, of course, resorting to unusual and expensive methods. How to preserve the seed in best condition is the problem. I do not know how Mr. Terry is going to manage, as I have not been a close reader of agricultural papers eccently. It may be supposed that the potatoes will be shipped to him in a harrel and will be some time on the road. The first thing that I should do with them (and shall do with the barrel I am to plant myself), if they arrive weeks or months before planting time, would be to take them out of the barrel, put in regular potato crates or hoxes, and store them iu a cool potato cellar, as near as possible to the light (for our potato cellars are dark), and otherwise try to keep them sound and plump and dormant. At the approach of planting time, when the tubers show signs of growth, they may be taken out and spread thinly on the floor of a light room until wanted for planting. Of course, they must be cut to single eye very carefully, and planted in rich, wellprepared ground, in the usual way.

People who might wish to make extra efforts, could plant larger pieces (halves) in a hot-bed, and pull and plant the slips or sprouts somewhat like sweet potatoes. I prefer to plant pieces of the tuber, giving them a foot space in the rows and making the rows three feet apart.

This way is safe to adopt even for the main crop for market, but heavier seeding will be advisable. This single-eye planting, I confess, is not to my taste. Whole, medium-sized tubers usually give the most satisfactory returns; but seed is so scarce this year that we must be content with planting cut seed. To go to the extreme (single-eye), however, can be allowable only in extreme cases, like that of the "Freeman" potato.

The results of an experiment made by the Rural New Yorker last season may be interesting in this connection. "It appears, therefore," says the Rural in its summary, "that whole potatoes of medium size, placed one foot apart in trenches three feet apart, yielded over ninety-five bushels per acre more than single-eyed pieces placed three inches apart; seventy-three bushels more than single-eyed pieces placed six inches apart, and fifty-five bushels an acre more than either two-eyed pieces or half potatoes."

New potatoes will in every probability bring a good price next June and July, even if a pretty large area should be planted-what Islightly doubt, on account of the great scarcity and the high price of seed. In regard to the best variety for earliest crop in the market garden, I believe that we now have the choice between Early Ohio, Early Sunrise, Burpee's Extra Early and Ohio Jr. In some localities one may do better, in others. another. I am not prepared to say which is "best" among them. Probably Early Ohio is as early as anything we have that is worth having. Fortunately, these first early sorts seldom suffer seriously from blight and rot.

MUSHROOM GROWING.—I am often quite fortunate in anticipating wishes of my friends. I had only just sent off my communication on mushroom growing, for last issue of FARM AND FIRESIDE, when two requests for information on this subject were received. One of the inquirers had mushrooms growing spontaneously behind his barn, and he thinks that is a good chance to get mushroom spawn for transplanting. The effort, I think, will be abortive. The easiest way to get the spawn is to buy it from a reliable seedsman.

LUCRETIA DEWBERRY.-I confess I am fond of the dewberry, and consider it far ahead of any cultivated blackberry I know of. While I care little about the latter, greatly preferring the fine, sweet blackberries of the wildwoods, I think neither of them is quite equal to a well-ripened dewberry iu deliciousness and lusciousness. Still, the fruit does not succeed everywhere. The Lucretia appears to be worthless here, while we had it in perfection in New Jersey. Whether this is owing to soil or climate, I do not know. The dewberry is at home on New Jersey sand. Here we have strong, clay loam. The fruit of the Lucretia and the Bartells, another good variety, is early and large, and the bush productive. A good way to manage it is hy training it around stakes.

LATH TRELLIS.—Some time ago I found in Farmer's Review the following description of a trellis recommended for Liuna or other clinging beans:

"I take three laths and nail them together at the top, with one wire nail with flat head; do not drive quite in, then clinch. This allows for spreading when got to hills. The three laths should be driven to every two hills, or to each hill, as we may desire, if the crop is heavy, iu the form of a tripod, and they will withstand more wind than a single pole, unless very large and stout. Two bundles of lath, costing twenty-five cents, will be sufficient for any ordinary family for home use, and twenty minutes' time will nail them together and sharpen the lower ends. They are just as effectual to train tomato vines as for bean-poles."

I have tried such lath tripods for Lima beans, tomatoes and gourds, but found them desirable for neither. I seldom care to use supports for my tomatoes, except, perhaps, for a few specimens, and then I train them to a single pole. For Limas I yet consider the wire trellistich posts four to five feet high, superior to anything I ever tried. Although we now have all sorts of bush Lima beans, and very good ones at that, I do not think we can yet dispense with the climbing Limas, and consequently with the trellis.

POTATOES FOR SIZE.—A subscriber in practical of so Dorchester county, Md., who signs him-

self "Potato-bug," competed, the past season, for a prize for largest tubers of People's potato. He prepared a spot only large enough for eight hills, hy spading into the already rich soil the following iugredients: (1) One bucketful hen manure, clear droppings, (2) one bucketful well-rotted stable manure, (3) one bucketful of commercial fertilizer, (4) two gallons of corn meal, (5) two gallons of fresh wood ashes. The best of care and plenty of lukewarm water in dry weather was given, yet the yield was not larger than from plants having ordinary field culture. Now he wants me to tell him the reason of the failure. I would do so if I knew, but I do not know everything. A hog or a goose can be made excessively large and fat, by "stuffing" with rich food, yet the best-fed man may remain lank and lean all his lifetime. Coarse weeds will grow tall and rank on a manure pile, while a potato hill growing there may produce but a few or small tubers. Primitive soil fertility and natural conditions often give results unobtainable by artificial stuffing. I have never been able to grow prize crops by the excessive use of manures on a few hills. Is it because we drown the pig in the swill barrel? If I were to grow tubers for size, I would take the best natural potato soil to be had, manure well, but not excessively, trench deeply, and thin every hill to one good, strong stalk at an early stage.

Orchard and Small Fruits. CONDUCTED BY SAMUEL B. GREEN.

HOW TO PLANT TREES.

BY PROF. T. V. MUNSON.

With the numerous excellent books and papers in every branch of horticulture now to be had so cheaply, it seems almost needless to offer instruction on so simple a matter as planting a tree, yet so often is the question asked by customers, that I try to answer here for all who do not know. Make ground thoroughly mellow at least fifteen inches deep and three or four feet wide every way, if holes are to be dug; thorough plowing of entire plat is preferable if it can be done. Prune the tree close, straighten out roots evenly, having the tree standing the same depth it was in nursery; work fine, mellow soil -but no manure-all among the roots, and when they are all covered an inch or two, then press the soil very firmly down with the foot or a broad-ended maul, after which fill up evenly with loose soil, over which place a mulch of rotten straw or manure three or four inches deep, extending three feet every way from the tree. Whether the mulch is put on or not, keep the soil well cultivated about the tree. In this climate all fruit trees should be headed low and leaned a little to the south-west when planted.

POLLEN FOR CROSSING APPLES.

When the first blossoms of the variety we wish to use for fertilizing have expanded, we pluck out, with fore finger and thumb, the stamens and pistils and drop them into a cup. In an hour a smart boy can gather in this way enough of the anthers-iu the "hard pellet" state-to fertilize a thousand or more blossoms. After gatheriug we dry it in the cup, iu a warm, close room. In the process of drying the anthers ripen and burst, and when needed for use a camel's-hair pencil, moistened, will come out of the dish ladeu with the golden dust. To show the durability of pollen gathered in this rough way, I will state that three years ago we laid aside a cup of pollen not used for four weeks. At the end of that time Dr. Halsted germinated it on moistened slides quite as perfeetly as that freshly gathered.—Prof. J. L. Budd.

INSECTS ON FRUIT TREES

Can be destroyed by spraying with London Purple. Diseases of grape vines can be checked by spraying with Bordeaux mixture. The Field Force Pump Co., of Lockport, N. Y., wanufacture the Kuapsack Sprayer and a full line of Orchard and Vineyard Outfits. Write them for circulars and directions.

If Koch's consumption cure proves trustworthy we are inclined to give the McKinley bill credit for it. Having been charged with every ill, it is only fair to credit the account with a cure.—Burlington Hawkeye.

ON TRIAL

SOUTHERN STOCKMAN AND FARMER, Starkville, Miss., 4 months on trial for 15 cents. Sample copies free. Eight months old—4,000 circulation. The most reliable and intensely practical of southern agricultural journals. Stamps taken.

2 Pts. Flower Seeds and Price List for 5 cents. H. F. BURT, Taunton, Mass.

SEEDS Siphs. Flower Seeds 10c. Spiks. Vegetable Seeds, 10c. Full Sieghts, Addifferent 1000 agents wanted at 55 a day, either ser. Catalogue Free, BIG PRIZE

Light BRED SWEET POTATOES. One barrel worth two of Northern seed. All that grow Irish Potatoes should have my catalogue free with testimonials. John W. Hall, Marion Sta., Md.

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Mention this paper when yon write.

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Raspberries, Currants at reduced
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Mixed with plain water, makes 22 gallons of wash.

Write for circular. Druggists and general stores sell it.

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Our Larm.

THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey.

A VENTILATOR FOR POULTRY-HOUSE.

We give a plan of a ventilator (sectional view), intended for ventilating a poultryhouse, and at the same time avoiding draughts or currents of air. It was sent by Mr. J. H. Clough, Tolland, Conn., wbo gave no detailed description of it other than is explained by the cut itself. The great difficulty in ventilation during the winter season is the admission of cold air and the loss of accumulated warmth. Any method that permits of a free circulation of air and which protects the fowls from draughts when the wind changes, will be of advantage.

MATING UP FOR BREEDING.

Men who make a business of breeding fancy poultry have their breeding-pens made up before this time. It is usually attended about the beginning of the year. This is done for the double purpose of securing purity of the stock and early hatches. Hens and pullets are apt to receive the attentions of the cock for some time hefore they begin to lay. That one may he sure of the parentage of the chicks on the sire's side, the birds must be mated early. Early muating and good treatment induces early laying and the opportunity for early chickens. Many an establishment has a considerable number of chickens running about now, and may have many more soou.

The large breeders are obliged to hatch

thus early for themselves before the eggshipping season begins, because then those who advertise freely, aud are knowu, are pushed with orders, as it is warm enough to ship, and sometimes cannot fill their orders as fast as they come. But all who keep fowls and raise poultry for market or for eggs, should have the birds they do not wish as breeders all sold off, especially the male birds. A mongrel cockerel runniug with the hens now will be very apt to leave his impression on cbicks hatched in March or April; therefore, he should be gotten out of the way. The same is true of pullets or hens. Select the breeders, and if the

remainder are not

wanted for

some partic-

ular purpose,

VENTILATOR FOR POULTRY-HOUSE. fatten and sell them immediately, unless they are laying. stale egg, and fresh eggs are more easily The best birds should be selected to reproduce their kind next year. Careful and persistent selection, and the mating with a good male bird every year, will soon make an improvement in the appearance and profits of the poultry. It will pay any poultry-keeper to breed only from not quite satisfactory in the matter of the hand alone. productiveness, he should get some new blood into them. If more eggs are wanted, put a Leghorn or Houdan cock with the breeding heus. Do not allow too many hens to one cock, and the chicks will be stronger. If you want a rooster from a breeder, order him soon, as the stock is being distributed rapidly and prices are going up every week. Decide what is wanted, then get it, and give the breeding stock the best chance possible in housing and feeding.

MATING FOWLS FOR BREEDING.

It is a fact, recognized and admitted by all poultry breeders, that in selecting fowls ative as to either case; there are exceptions to both, and good chickens may also be produced from cocks and hens all of the same age. One thing ought always to be born in mind, that in mating young fowls less than a year old, their chickens will always be backward in fledging; neither is it desirable to breed from fowls after they have passed their third year. The male bird has the most influence upon the color of the progeny and upon what are usually known as the fancy points, while the form, size and useful qualities are principally derived from the hen.

As to the crossing of a breed, the cockerels in the progeny will more or less resemble the father, while the pullets follow the mother, and a knowledge of this fact is of much importance to those who wish to breed back to the original strain. In the larger breeds it is frequently desirable to increase the size or to render more prominent some portion of the body. In such cases a cross with a hen of foreign hreed should be employed. If, on the contrary, it is the plumage which is sought to be modified, theu it is the male bird that should be thrown in. The same rule should also be adopted in breeding the cross out again, or in retaining any new characteristic.

EXAMINING EGGS.

If you wish to preserve eggs, look at them through a strong light. See that they are perfectly clear, with not a dark spot through them. A good way to tell a fresh egg is by the air bubble on the large end. The smaller the air bubble the fresher the egg. A fresh egg must be examined to see the air bubble. Hold it up to an egg tester, turn it around slowly, and look close near the top of the large

> end. If the bubble looks large, say one quarter of an inch deep, it should not be used. Get a fresh egg, newly laid, and make yourself familiar with the position and size of the air bubble. You then can always tell a fresh egg, as the bubble becomes larger and larger every day. A fresh egg has a somewbat rough shell, while the sbell of a stale egg is very smooth. When cooked, the contents of a fresh egg stick to the shell and must be removed with a spoon, but a stale egg, when boiled hard, permits the shell to be peeled off like the skin of an orange. It takes a longer time to boil a

fresh egg

hard than it

beateu into a froth tban stale ones. You cannot, however, distinguish a fertile egg until after it has been under the hen for a week, though experts can do so after the fourth day. It is very easy to distinguish a fresh egg by using an egg tester, and any kiud of an egg the best birds he has, and if his flock is tester will answer. Some examine with

EXPERIENCE AND THEORY.

No one can well experiment until he theorizes; that is, be should study all problems, come to some kind of a conclusiou and then aim to demonstrate the truth of his reasoning. In keeping poultry, however, one must guard bis investments and not incur risks of loss. Hence, all experiments must be conducted on a limited plan of operatious. The beginner is seldom as cautious as he should be. It is a fault with the majority of persons that they have too much theory and too many plans and ideas of their for breeding, it is desirable that the ages of the cock and hen should vary. It is generally admitted that the strongest and best chickens are produced from a young cockerel and two-year-old hens; but unfortunately, however, the chickens of such pareutage bave too frequently a large proportiou of males, and therefore it is that some breeders prefer a two-year-old cock to put with pullets. This rule must not, however, be looked upon as imper-

have, by practical experience, in a limited manner, demonstrated that your theory is correct and will lead to benefit.

COOPS FOR SITTING HENS.

As a precaution against storms and severe cold, all the coops for sitting hens should be placed in the poultry-house or under a shed. When the hens come off with their broods the coops should be carried into the barn during stormy weather, and they should be so coustructed as to permit of carrying the hens and chicks in the coops. No matter how closely a hen may hover her chicks, she cannot protect them in winter wheu they are exposed to severe cold, and the chicks will sometimes become chilled during the day when they are picking up bits outside of the coop. All coops for hens with broods should be well littered with cut hay, and every care used to have them as warm as can be. When the hen is sitting, her nest should be in a warm place and her food placed where she cau reach it without being compelled to go very far from the

INQUIRIES ANSWERED.

Incubator.—J. C. T. writes: "Who has an iucubator of a ten or twenty dozen capacity, that can guarantee satisfaction? State price." REPLY:-There are a great many mauufacturers. We do not know their prices.

Plan for Poultry-House.—W. F. S., Salineville, Ohio, writes: "Will you please give plan of poultry house for one hundred hens?"

REPLY:-See issue of January 15th. We are giving plans during the whole year, and will give others. A plan caunot well be described

About Breeds.—M. L. W., Kinsman, Ohio, writes: "(1) Are the American Schright, or Schright Cochins, and the Wyandottes the same, or are they two distinct breeds of chickens? (2) Where can I get the pure-bred Pekin ducks or their eggs? (3) How do you put on a tarred-felt roof? Will it not get wet and leak when it rains?"

Prily:—(1) They are all merged into the

REPLY:-(1) They are all merged into the Wyandotte. (2) From any of the breeders iu our advertising columns. (3) It is first tacked down, ou hoard roof, and coal-tar spread over it. Directions are always sent with the tarred felt. It makes a tight and excellent roof.

Incubators or Hens.—Miss C. R., Pollock, Mo., writes: "I have about thirty-six hens, and wish to hatch as many chicks as possible this spring. Here are some questions: (1) Which would be the more profitable way to hatch them, under hens or with an incubator? (2) What would a good incuhator cost? (3) Is there more than one kind of Hamburg chickens? Please give me their full name or names."

REPLY:-(1) Until you learn the incubator the hens are probably better. The difficulty is that hens do not sit when you desire them to do so, while the incubator can be put to work at any time, (2) From \$25 to \$100. (3) The Black, White, Golden Spangled, Golden Penciled, Silver Spangled, Silver Penciled, six

Crop-Bound and Exposure.—G. W. P., Big Rapids, Mich., writes: "(1) Some of our hens become stupid, and examination shows their craws full. I put one in a hasket and kept her there days, and the craw remained in that condition; seemingly, nothing passed from it. She seemed hungry. What is the matter and what is the remedy? (2) Occasionally we have a hen go hlind. Otherwise, they seem well. Sometimes they recover and sometimes they die."

REPLY:—(1) Crop-bound results from esting

REPLY:-(1) Crop-bound results from eating loug hay or dried grass, old rope or any suhstance that prevents the passage of the food from the crop to the gizzard. The birds are hungry because the food cannot be passed into the gizzard, and then to the stomach. The remedy is to remove the substances by an incision in the crop. (2) The blindness is caused by exposure to high winds, and sometimes hy being with the male, from which they should

CORRESPONDENCE.

HEATING POULTRY-HOUSES .- G. W. H., Stevus Point, Wis., writes: "Inside a small, box stove place a small, coal-oil stove that costs ahout \$1. It will not cost five cents for twentyfour hours' heating."

four hours' heating."

The Cost of the Feed.—I am a constant reader of your valuable paper and you have some good articles in regard to poultry, and I see some readers ask you how much profit there is in poultry. I have kept a strict account for one year. On January I, 1890, I commepced with 18 hens and I rooster of the brown Leghorn breed, and to September 15th they laid 192 dozen eggs. May 1st I set 45 eggs and raised 35 chickens. I sold my old hens on September 15th, and have had 17 young chickens to eat. Now I have just as good a flock as I started with, and my feed cost me for the year \$8.79 to January I, 1891. I think they pay pretty well if properly bred and cared for.

Lyons, N. Y.

HOW'S THIS?

MAULE'S SEEDS LEAD ALL.

Our Catalogue for 1891 is pronounced absolutely the best seed and plant book issued; printed in good legible type, on good paper, it excites the admiration of all. 664 varieties of Vegetables, Flowers, Flowering Plants, Small Fruits, Fruit- and Nut-bearing Trees, etc., are beautifully illustrated, as many as 38 of them being in colors. This catalogue is mailed free to all who ordered in 1800; but as the postage on the book alone is five cents, we must ask all others who are not customers, desiring a copy, to send us twenty-five cents in stamps for it; and in addition to sending our catalogue, we will also mail you, without extra charge, a packet of the wonderful BUSH LIMA BEANS, THE MOST VALUABLE VEGE-TABLE NOVELTY INTRODUCED IN YEARS; AND A PACKET OF THE NEW MARGUERITE CARNATION, THE FLORAL WONDER OF 1891. These two packets of seeds are worth 25 cents; so it virtually means the same thing as mailing our catalogue free to all who answer this advertisement. Address

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are our figures, and that no better, substantial, durable small mill can be found. Address the old stand,

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The Best Brooder Ever invented for raising c. s. SINGER, Cardington, Ohio, for circular,

OULTRY for PROFIT.

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Sample copy free. I.S. JOHNSON & Co., Boston, Mass.



Twenty-three first premiums in one year. Large circular for stamp. A. F. WILLIAMS, Bristol, Conn.



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Simple, Perfect and Self-Regulat-ing. Hundreds in successful operation, Guaranteed to hatch a larger percentage of fertile eggs at less cost than any other hatcher. Send 6c. for Ilins. Catalogue, Oirculars free. CEO.H.STAHL, QUINCY, ILL.



Highly concentrated. Dose small. In quantity costs ess than one-tenth cent a day per hen. Prevents and ures all diseases. If you can't get it, we send by mail ost-paid, One pack. 25c. Five 31. 2141b. can 31.20; cans 35. Express paid. Testimonials free. Send stamps or ash. Farmers' Poultry Guide (price 25c.) free with \$1.00 rders or more. I. S. JOHNSON & CO., Boston, Mass. I. S. JOHNSON & ... Mention this paper.





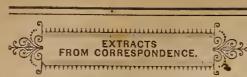
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Catalogues and Prices sent on application. Mention this paper when you write.



portion of Colbert county, the mountainous, rough part, though the land on the creeks is good and we have good range for stock. Crops were poor last year. Land is cheap-50 cents per acre and upward. Corn is 50 cents per bushel; pork, 4 to 5 cents per pound. Stock is ail low for cash. Hogs make good pork on the mast, so we don't have to feed much corn.

FROM OREGON,-The winter here is warm and dry; there has been just enough rain for farming. Cattle on the range are fat. There are some vacant lands in the hills. Times are a little dull at present, but people have plenty to eat and to wear. This is a very good piace for raising poultry. Fruit does well when the frost don't catch it. Vegetables grow finely on the damp lands, but the dry lands need irriga-

Brownsboro, Oregon.

FROM ILLINOIS .- Hardin county is about the best poor man's country I have ever seen. Nearly everything the human family wants can be raised here. Onr lands produce a good crop of nearly everything planted. It is healthy. The water is good. The soil is lime and sandstone. Land is worth from \$5 to \$25 per acre. Times are a little dull now. Getting out cross-ties and staves Is the main work at this time. We have fine oak and poplar timber. There is no railroad in the county, but there is one surveyed and will be built soon. Hardin county lies on the Ohio river, with the Saline river as a county line on the northwest. It is a fine fruit country. We have good schools all through the county; the religious denominations are all well represented. T. F. M.

FROM SOUTH DAKOTA .- Custar City is situated in the heart of the Black Hills and in what is claimed to be the center of the greatest tin mining district of this contluent. However, we are not in the mining business, but trying to find health and wealth. We flud the climate here excelleut for lung troubles and hope to find it conducive to wealth. The scenery here is grand, and while we are not making a business of photography or geology, we are securing some fine views of the varied scenery and making a fine collection of geological specimens which abound here in almost endless variety. Here we find mountains of mica, pure and clear as that used to illuminate doors of heating stoves. Several varieties of quartz, sparr, gneiss, etc., intermixed with mica, iron, tin, and other metals and minerals are found in abundance. The timber is almost wholly pine and is excellent The forests are dense and extensive, many trees are thirty to forty inches in diameter. Ferns and moss are found in the fissures of the rocks. Coutrary to our expectations we flud the climate mild and salubrious; in fact much more pleasant than that of southern Nebraska or northern Kansas, whence we came. And fuel, well, we never used such wood before; we have ignited an ordinary stick of stove-wood with an ordinary match and had a good fire in a few mlnutes. We do not feel the cold here like In a prairie country; and up to the mlddie of January there has not been a day this winter that men have not worked out doors bare handed and without a coat. We are not here to stay. we are not booming the country, we have no property here for sale, we are simply stating facts. There are drawbacks, short seasons, no fruits, etc. For such cereals, vegetables, etc. as require only a short season, this country cannot well be beaten; but for general farming purposes it is not a success.

about three miles wide by twelve long, lying in Puget Sound between the two great cities of the Pacific coast, Seattle and Tacoma. It is said to contain about twenty-one thousand acres, with a population; between seven and eight hundred. The soll is what I would call shot ciay with a good deal of gravel mixed in. In places it is a sandy loam. The small bottoms are a black soil with very little gravel, all heavily tlmbered, or have been, with fir, hemlock and cedar as the prevailing kinds, from one to two hundred feet high. General farming is not attempted. It costs too much money and labor to clear the land to use lt for general farming. But after the wild nature is worked out, or with a little fertilizer, any kind of truck farming pays well; and for fruit of all kluds as far as tried, excepting the tropical frults, I think It would he hard to beat. So far, small fruit has been made more of a specialty. Strawberrles do extra weli. Last summer we had one acre of strawberrles that netted us two hundred dollars, saying nothing about what we made use of at home, which was uo small Item I can assure you. Two years ago the same ground was covered with logs. The general health is very good. As to society, it is good as cau he found anywhere. In our neighborhood we have preaching and Sunday-school every Sunday. We have eight to nine months' school every year. There are three general stores, three brick-yards, one saw-mill, one shingle-mill. The Puget Sound

Chautauqua assembly is located on the Island.

There is not a salgon on the island. No tramps,

no suakes, excepting a few garter snakes, no

FROM WASHINGTON.-Vashon is an island

Custar City, South Dakota.

rats, no wlid animals, no blizzards, no haii storms, no very bad wind storms, no more rain than we need, very little snow in winter and not a sign of it yet this winter. Nor has the ground been frozen. Nothing but the very best of soft water in weils or springs. Weils are from ten to forty feet deep. There are a good many grouse, some quail and some deer, no rabbits, no doctor. We would like very much to have a good doctor, if we could find one that would like to retire from regular hard service and have his own truck and berry patch and do what little doctoring and setting of broken limbs we might need. Land is selllng ali the way from \$25 to \$125 per acre, and some places well improved much higher. But that is not high for land that will bring an lncome of from one to two hundred dollars a year. We can go to Seattle or Tacoma every day in the week except Sunday; fifteen miles to either city; fare, fifty cents.

Vashon, Washington. FROM FLORIDA.-In a former letter I referred to the drawbacks to be met with by the settler here, but mentioned only one-the scarcity of efficient help. This is still a trouble which limits operations and prevents success-for those who are unable to perform all the manual labor necessary to insure it. There are some who have lived here some tlme, and are not adapted to the work, who claim that one can't make money here; that where one has to make the land, as they express it-that is, fertilize it thoroughly before a first crop can be ralsed-it is impossible to get ahead any. The soil, most of it, is a poor, white saud; and even where it is darker and seemingly richer, it won't grow white beans unless fertilized. There is an abundance of muck here-enough to last for untold ages-and it is usually to be found not far from the land needing to be fertilized. It is of the best quality, a pure, vegetable mould, mostly the rotted roots or trunks of the scrub or "saw" -paimetto. It contains nitrogen, and must be rich in potash, as these creeping stems contain a large per cent of that fertilizer. Phosphates are abundant and cheap now, and numerous "plants" are being established to manufacture them to make them immediately available in crop raising. Aiso, one can get a good supply of phosphoric acid by going some four miles and hauling loads of oyster shells, which make, when burned, a lime much superior to that bought of dealers. Of course, it would involve quite an outlay to fertilize much land in this manner, and as far as I have experimented it costs just about the same as to buy good brands of commercial manures. But when well fertilized the soil is good for several crops, aud three crops can be raised on the same laud in the tweive months. With one crop alone more can be made on an acre than on miny a good-sized farm at the North. One little, go-ahead woman here, who owns a first-class northern farm, 125 acres of the 200 under the plow, with a good tenant on it, deciares she had rather depend on the product of about two acres that she has planted here than on that of the 200. And yet these two acres are not a fair sample, as they are only partly fertilized and badly in need of draining. So it can be seen that there are many men or women of many minds in regard to this question of "getting on" here. Another drawback is that insects are troublesome part of the year, as might be expected in so temperate a climate. But these seem to lose their power to destroy in the winter and spring. I have succeeded in raising a garden each summer we have been here, without using any insecticide. Mice and flies are less troublesome here than in any other place where we have ever lived, although our shanty (called a honse) invites their entrance in numerons places. But oh, the cockroaches! Words fail to express the pest they are in a poor house; but into such a one as a weil-to-do family North would usually live ln they never enter. Given a decent house, a woman's work is immeasurably easier here than there. Lack of time forbids my further particularizing, and I will sum up by saying that though there are many drawbacks, each is counterbalanced by many good features. Summer is pleasant; hot, murky weather is almost unknown, and there is always a pleasant, fresh ocean breeze. Most nights are delightful; mosquitoes are sometimes bad, but can be easily managed. Now, just after Chrlstmas, it is like a New York September. Strawberries and vegetables are here and coming on, where one has had 'gumptiou" enough to plant and care for them. On our own table we are having an

Cleveland, Fla. FROM SOUTHERN ARKANSAS. -Ail the government land in Arkansas Is surveyed and In market. There are also thousands of acres of state and school lands in nearly every county, and much of it to be had cheaper than the government land. Partiv improved places of ail sizes and sorts can be had cheaper than government land, considering the improvements, such as buildings, clearings, fences, etc. If a settler has but \$500 lt is better and cheaper to get a place near a town or raliroad station. with a house and some cleared land, at \$5 to \$10 per acre, aud pay part down, baiance on time. All the northern people down here get as near the viliages and stations as possible, to avoid the isolation and ioneliness of living back in the woods in the solitude, which is hard on the women and children; and they would surely get homesick in such a location. In where at ten to fifty feet deep. Cisterns can

abundance of radishes, lettuce, cucnmbers,

tomatoes, meions, etc.

Only Good Seeds Bring Forth Good Crops.

ARE THE BEST AND CHEAPEST.

Farm and Field. To Paint the Lily
Would be the mere mention EEDS that will Yield Abundant Crops. EEDS to Sow that

EEDS for the North, South, East and West.

Would be the mere mention by us of the excellent quality of our Farm, Garden and Flower Seeds to those who have used them. They know they are the best, and to speak of their real merits is like

Gilding Gold.

To those who have never used our Seeds we say: "Try them." A trial will better advertisement for be a much better advertisement for us than we can pen.

Burpee's Seeds are the Best. Tonce a customer, a customer always.

The Popularity of our Seeds increase year by year, and we deal direct with World. In the husy season we receive daily from 3,000 to 5,000 letters and postal cards.

Six Choice Novelties. Burpee's Red Etna Pepper,—New Golden bage,—Burpee's Hard-Head Lettuce,—The Delaware Watermelon,—and The Matchless Tomato.—One full-size packet of each, with plain directions for culture, will be mailed to any address on receipt of 25c., or any three of these Choicest New Vegetables for 16c. (8 two-cent stamps). Our Farm Annual for 1891 will be mailed free to all favoring us with an order. All our Seeds are warranted. Write us to-day.

BURPEE'S FARM ANNUAL for 1891.

Name this paper and address

W. ATLEE BURPEE & CO., Philadelphia, Pa.



JAPANESE WINE BERRY. No new fruit has ever caused the controversy ways. It is distinct from all other berries in every way—a perfectly hardy, beautiful ornamental plant. Berries are at first covered with a hurr with a reddish moss on it, like a Moss Rose hnd; the stems are also covered with this moss. Fruit large and borne in clusters of 75 to 100 in a bunch. Beautiful glossy scarlet. Very sprightly, sweet and jnicy, of a delicate, luscious davor, peculiar and superior to all others. For canning and preserving, it is grand, retaining its fresh, sprightly flavor cooked in any form. Very prolific. Price, strong plants, 50 cents each, \$5.00 per dozen.

ELEACNUS LONGIPES New Japanese Fruit, growing like an immense currant hush. Well-established plants will bear over a hushel of fruit. Berries are oblong, as large and resembling a dark-red cherry, with a small, soft pit. Flavor is delicious—rich, juicy, and sprightly, with a cooling, soothing effect. Superior to the sour cherry, with the fine tart taste of the cranberry. A New Flavor, a New Fruit, all are enthusiastic over when eaten. For a MARKET FRUIT this will have a new field of profit. For jellies and preserves we consider this superior to almost anything else. VERY SCARCE. 25 cents each.

NEW CRANDALL TREE CURRANT. Combines more cies than any fruits now in general cultivation. In size it ranges from the very largest cherry currants to the size of Concord Grapes, perries five-eighths of an inch in diameter being very common, while those measuring three-fourths of an inch are easily found, and a few have reached seven-eighths of an inch. It attains the height of or 8 feet, forming an enormous bush. Fruit jet black and very fine in flavor. More sweet and pleasant than any currant. A Bargain, only to be had from this advertisement. 50c., 3 for \$1.

OUR CATALOGUE contains a mint of information and value. Sent with every order and on application. V. H. HALLOCK & SON, QUEENS, NEW YORK.

BEST & CHEAPEST NEW GRAPES Esther, Rockwood, Enton, Moyer and all others New and Old. S REW GRAPES FRUITS. Catalogue Free. GEO. S. JOSSELYN, FREDONIA

order to sell cord-wood, shingles and ties, one

must be near a railroad. The railroads must be made first before the wild lands are desirable for actual settlers. People do not generally want to go back very far from a village to get cheap land, unless several families go together and locate where they are sure a railroad will soon come. We have about 100 steam saw-mills near the Irou Mountain railroad, between Little Rock and Texarkana. The Iron Mountain railroad (Gould system) owns something like one million acres along it's line, for sale on long time, at \$3 to \$5 per acre. The government land inside of railroad limits is \$2.50 per acre. No man with a family should come here or anywhere eise in the West or South with less than \$500 and the ability and willingness to practice economy aud do much hard work. We have all kinds of land-sandy, ciay and a mixture of both, some gravelly spots, though not enough to be much detriment. The uplands, covered with pine and oak forest, are generally uuduiating enough for drainage, but not hilly, the inequalitles being only about teu to one hundred feet up and down. The river and creek bottoms are nearly flat, and much more fertile than the uplands, and best for corn aud oats. The uplands are best for fruits, vegetables aud cotton. We have a good, free school system, and have generally eight months of school per year. Teachers' wages are \$30 to \$75 per month for either sex; average about \$45. Faii is probably as good a time as any to come South. Springs of good, palatable, soft water are moderately plenty in the uplands, and good, soft water wells can be had almost auy-

runniug streams. Malaria is not serious on the uplands. Our family of seven persons the uplands. Our family of seven persons have not had a chili in our six years' residence here, or paid a dime to the doctors. The prevalent diseases in Arkansas are about the same as in the adjoining states. Don't think the lawlessness and shooting, supposed to be so prevalent in Arkansas, will average any worse than in adjoining states. Most of the hangings at Ft. Smith are for crimes committed in the Indian Territory. I am a New Yorker, and have always spoken my mind freely on religion and politics, also voted to suit myself, and have no trouble. It is generally better to tread rather softly on the toes of ignorant people, as ignorance and intolerance go together everywhere. Arkansas is not without drawbacks. There is no earthly paradise in this state or anywhere else on Uncle Sam's domain that I know of, though in my opinion the drawbacks here are not as serious or numerous as in some other localities. As a fruit grower. I would say that railroad extortion is the hlackest cloud in my sky; a drawback which can and will be remedied when the government controls the transportation of all products, which will be in the not far distant future. Another great want here is more money in circulation. There is not half what we need for the wants of business. It is now almost impossible to sell a farm or anything of much value for cash down. This great want can also be remedied, and will be, I hope. For a full stock of information on the resources of Arkausas, send your name on a postal card to M. F. Locke, Little Rock, Ark., who has charge of the Bureau of Immigration and is paid by the state.

Malvern, Ark. have not had a chill in our six years' residence

Queries.

READ THIS NOTICE.

Questions from regular subscribers of FARM AND FIRESIDE, and relating to matters of general interest, will be answered in these columns free of charge. Querists desiring immediate replies, or asking information upon matters of personal interest only, should enclose stamps for return postage. The full uame and post-office address of the inquirer should accompany each query, in order that we may answer by mail if necessary. Queries must be received at least two weeks before the date of the issue in which the answer is expected. Queries should not be written on paper containing matters of business, and should be written on one side of the paper only.

Poultry Book Wanted.—S. L., Elkhead, Mo. Send 25 cents to this office for the "Complete Poultry Book."

Killing Timber.—C. H., Champion, N. Y. To kill tlmber, cut it during the latter part of July or first of August.

Paper on Floriculture.—F. L. A., Delta, Col. "Park's Floral Magazine," published by Geo. W. Park, Libonia, Pa.

Silos in the South.—G. W. H., Stevens' Point, Wis., wishes some of our readers to give their experience with the silo in the South.

Cranberry Plants.—H. D., Kenton, Ohio. You can get cranberry plants of the northern and north-western nurserymen who advertise in our columns.

In our columns.

Lard Oil.—J. C., Princeton, Ind. The lard as it comes from the hog is pressed at a low temperature. This separates the lard oil from the oleine and stearine, which are nsed for making candles and bogus butter.

What is a Tuber?—J. J. G., Pawnee City, Neb. Webster defines it as follows: "A fleshy, rounded stem or root, usually containing starchy matter, as the potato or arrow root; a thickened root-stock or subterraneous portion of a stem." The potato itself, therefore, is a tuber. The onion is a bulb.

Rean Planter.—A. T. Y., Chlcago, Ill.,

fore, is a tuber. The onion is a bulb.

Bean Planter.—A. T. Y., Chlcago, Ill., writes: "I wish to plant beans in rows three and one half feet apart, dropping one bean every ten inches."

REPLY:—A good corn drill can be adjusted to do the work for you. If yon have only a small patch to plant, you can use a hand corn planter for the purpose.

Replowing Sod.—G. S., Inglefield, Ind., writes: "I have a field of very tough sod, which I plowed in November. I want to plant it to corn next spring. Shall I plow it again in the spring? The sod lies very loose."

REPLY:—If you have one of the improved harrows, it will not be necessary to replow the ground. A good harrow will put it in fine condition.

Smut in Wheat.—R. J. M., Crystal, N. Dak

Smut in Wheat.—R. J. M., Crystal, N. Dak. Smut in seed wheat may be destroyed by an application of a strong solution of blue vitriol. Place a large basketful of wheat in a tub containing the solution. After it has remained in the solution for fifteen or twenty minutes, raise the basket np and set it on cross-sticks over the tub, and allow it to drain. The wheat can be readily dried by spreading it out on the barn floor and stirring it occasionally.

Beans and Bean Weevils.—J. D. K., Thayer, Mo., asks: "How many navy beans are required to plant an acre; also, how can the weevil be prevented from injuring the crop for market?"

REPLY BY JOSEPH:—Quantity of seed required depends somewhat on width of rows and on quality of seed. Abonta bushel should be sufficient. The weevils may be destroyed by exposing the newly harvested beans to dry heat of about 150° Fahrenheit for thirty-six or forty-eight hours. forty-eight hours.

Book on Bees.—E. D., St. Lonls, Mo., writes: "(1) Can bees be transferred from a log hive? If so, how can it be done? (2) Tell how to make a handy box hive. (3) How is a queen-excluder made?"

REPLY:—To answer your questions fully would require a great deal of space. You need a good book on the subject. This office can furuish you with one of the best, the "Bee-Keeper's Guide, or Mannal of the Apairy," by Prof. A. J. Cook. Price, \$1.25.

Killing Osage Orange.—A. C. H., Oswego, Kan., writes: "Tellme how to kill Osage orange hedge fence."

REPLY:—Grub it out. First trim it so that you can get close to it with a plow. Then plow close along each side, throwing the dirt away from the hedge, and make the trenches as deep as possible. Have a sharp share and cutter on the plow so as to cut off the roots easily. This will help the work of grubbing it out.

Alfalfa—Cotton-Seed Meal.—J. B. F., Columbia, Oklahoma, writes: "Some say that if alfalfa clover once gets set in the ground it cannot be eradicated.—Will cotton-seed meal do to feed to cows that are with calf?"

REPLY:—Adfalfa has large, long roots, but is not hard to eradicate. One single plowing, with a good, sharp plow will end it.—Yes. Cotton-seed meal is an excellent food for

Washington Seeds.—C. G., Healdsburg, state not named, asks: "Does the agricultural department at Washington furnish free seeds and plants, and can you get what kinds you call for? Who shall I write to for them?"

REPLY BY JOSEPH:—Yes, the department furnishes seeds, such as they are. You cannot get what kinds you call for, but usually such as the department has to distribute, mostly ordinary, cheap stuff of little value. If you desire to try them, however, address your member of congress, or write to the Department of Agriculture, Washington, D. C.

Sinhaning Water.—Mrs. J. M. writes: "I

Siphoning Water.—Mrs. J. M. writes: "I want to siphon water about one hundred and twenty rods. The highest point, which is from fifteen to twenty feet high, is about twenty rods from the spring. It is a good fall from them?"

there."

REPLY:—It can be done but the pipe must be put down very carefully. There must be no leakage at the joints. The siphon can be started by attaching a pump at the lower end. If it stops running it can be started again in the same way. A siphon of that size is apt to glve yon considerable trouble.

Root Crops for Cattle.—J. P. G.. Ashland, Ariz., asks whether carrots, mangels or sugar beets are best, also how many pounds of seed it takes for an acre, and whether the seed should be soaked before planting.

REPLY BY JOSEPH:—In nutritive value carrots stand highest, sugar beets come next and ordinary mangels last. Still, all three are excellent for cattle, when fed with grain and coarse fodder in proper proportions. Mangels and sugar beets are more easily and more cheaply grown than carrots. On the whole I would give sngar beets the preference, nuless I would decide to grow all three. To plant an acre of any of them requires about four pounds of seed. No need of soaking it before planting. Firm the soil properly and it will germinate promptly. Soaking seed before planting has gone out of fash.

Haud Seed Sower.—H. M. V., Woodbury, N. J., asks whether there is a 'hand seed sower that can be held in the hand and graduated to sow seeds from the size of beans down to radishes. There are a number of such devices. You will find them advertised in the catalogues of leading dealers, perhaps also in advertising columns of agricultural papers.

Hollowness and Bust of Celery.—S. L., Phœuix, R. I., wants to know how he can prevent celery plants from growing hollow or getting rusty. I have never had canse of complaint in regard to hollow stalks, where dwarf, stocky-growing sorts—Golden Heart, White Plume, etc.—are grown in good, rich soil and under good culture. To prevent rust is a problem not easy to solve. It can be done, however, by providing half shade and a constant supply of moisture.

Ashes—Composting Mannre.—W. H.,

Ashes-Composting Mannre.—W. H., Portland, Ind., writes: "Shall I scatter ashes as I have them, or put them in piles and scatter them in the spring?—Will fresh horse manure, mixed with sawdust, if put in piles, rot enough to apply to crops in the spring?"

REPLY: Scatterthe schools and scatter them.

spring?"
REPLY:—Scatter the ashes as you haul them.
—Put the manure in piles. In a couple of
weeks fork it over into new plles, putting the
outside into the center. If composted properly, it will be ready for application in a few

Methods of Greenhouse Heating.—D. B. B., Abrams, Wis., writes: "I intend to build a greenhouse opening from my furnace cellar on south side of house. Can I heat it by ruuning a hot-air pipe from the furnace into the greenhouse, or must it be heated some other way?"

way?"
REPLY BY JOSEPH:—The tronble with the proposed method is the dryness of the heat. You will have to counteract it by the free use of water. With plenty of paus kept supplied with water standing near the pipes, the difficulty may, in a measure, be overcome. Hot water and steam heat are more congenial to plant growth. plant growth.

plant growth.

Wheel Hoes.—"Beginner," Cokeville, Pa., asks a number of questions about garden wheel hoes. There are a great many serviceable ones. I nse Gregory's finger weeder and Planet Jr., both double and siugle wheel boe. The Ruhlman, which goes between the rows, also does good work. Have never tried the Daisy implements, but from description I have no doubt they are all right. I might name a number more that will answer, but I hardly think that the Planet Jr. donble wheel hoe is yet equalled as a "general purpose" tool. I would not do without it. Any person of ordinary intelligence can use it, and learn to use it well, without special instruction.

Subsoiling in Clay Soil.—W. F. V.,

it well, without special instruction.

Subsoiling in Clay Soil.—W. F. V., Cautou, Ohio, writes: "A party in this vicinity is introducing a subsoil attachment to ordinary plows, that can be set to ent from two to five inches deep in the bottom of the furrow, and leave the ground loose but unturned. Will this be of special benefit in raising small fruits and garden vegetables?"

REPLY BY JOSEPH:—If the subsoil is hard and impervious to water, it certainly will be an advantage to loosen it by any means through which it can be most successfully and most economically done, and thereby increase the soil's capacity for the absorption of water, and the chances for soil æration and chemical action. action.

Light versus Insects—Spinach.—B. H., Mammoth Spring, Ark., writes: "Is it a good plan to keep a lamp lit in my garden during the early spring nights to kill the varions millers? When is the proper time to sow spinach for early spring salad?"

REPLY BY JOSEPH:—A lantern placed over a large dish filled with water and a little kerosene, or a barrel coated with tar inside, will dispose of many night-flying moths and bugs, but I do not think it will do much good in protecting garden crops from insect attacks. This is, indeed, slaughter in the dark—killing friends and foes alike. Spinach for earliest spring salad should be sown in September or October. If it was neglected then, you may sow just as early in spring as the ground can be worked.

White Potatoes. Sweet Potatoes and

White Potatoes, Sweet Potatoes and Clover.—D. L. S., Vineland, asks: "What is the best rotation on sandy loam with sweet potatoes, white potatoes and clover, nsing Mape's potato manure. What is the best fertilizer for sweets?"

REPLY BY JOSEPH:—My personal experience with potatoes on sandy loam in New Jersey, speaks rather in favor of the use of Mape's potato manure. For white potatoes, apply half broadcast and half in the rows; for sweets, apply all in the hill. White potatoes, sweet potatoes, clover—clover plowed under for white potatoes—makes an excellent rotation. Gregory's cabbage compost—alternate thin layers of muck or fine soil, bonedust and fresh wood ashes, all well moistened and allowed to ferment, then worked over—will also make a good potato mannre.

Mending Rubber Boots.—G. L. F., Weston,

Mending Rubber Boots.—G. L. F., Weston, Mending Rubber Boots.—G. L. F., Weston, W. Va. In reply to your query we republish the following: Get some virgin rubber of your druggist and also some patching. Pnt an ounce or two of the gum into three or four times its bulk of benzine; cork tightly and allow it to stand three or four days to dissolve. Wet the boot with benzine for an inch or more around the hole, and scrape with a knife. Repeat this several times until thoroughly cleaned, and a new surface exposed. Wet the cloth side of the patching with benzine and give one slight scraping, then apply with a knife a good coating of the dissolved rubber, both to the boot and the patch, and allow it to dry until it will not stick to your fingers; then apply the two surfaces and press or slightly hammer into as perfect compact as possible, and set away for a day or two before using.

Muriate of Potash, Ashes and Gypsum.

—C. W. K., E. Tainter, Mass., asks: "How much muriate of potash is equivalent to one busbel of unleached hard-wood ashes? Will

busbel of unleached hard-wood ashes? Will it pay to use gypsum as an absorbent in stables at elght dollars per ton where manure is worth elght dollars per cord?"

REPLY BY JOSEPH:—A bushel of good, fresh, hard-wood ashes has about three pounds of potash and about one pound of phosphoric acid. Six pounds of muriate of potash, but no phosphoric acid. The bushel of ashes has a fertilizing value of about twenty-five cents, the six pounds of muriate of about thirteen cents. Eight dollars per cord for stable manure seems to me a pretty high price. I would not pay it, but rather depend on concentrated fertilizers. Even if stable manure could be bought at a reasonable figure—say not over three or four dollars per cord—the free use of gypsum or land plaster (sulphate of lime), or of kainit in the stables and on compost heaps, would pay largely. would pay largely.

Odorless Phosphate—Forcing Asparagus.—J. B. R., Shelbyville, Ills., writes: "Is the fertilizer advertised as "odorless phosphate" as good as nitrate of soda for forcing vegetables? Would it be practicable to run tiles, with a furnace at one end, between



OHIO SEEDS CLIMATES

40 YEARS EXPERIENCE on the Se A.W. LIVINGSTON'S SONS, Box 185, Columbus, Ohio.

of asparagus and thus force it for early market, or would this treatment shorten the life and future usefulness of the roots?"

REPLY BY JOSEPH:—The "odorless phosphate" is a waste product of the iron judustry, usually kuown as basic slag or Thomas slag. It contains about twenty-oue per cent phosphoric acid, claimed to be in a readily available form, although, strictly speaking, it is insoluble. Where phosphoric acid alone is needed, as on grain and dairy farms, this substance may do very well; still, I think its present price is too high. It cannot take the place of nitrate of soda or other nitrogenous fertilizers for forcing vegetables. The proposed plan of forcing asparagus cannot be earnestly considered. Forced plants are only good for one season, and new, strong plants have to be provided every year. The proper place for forcing asparagus, of course, is under the greenhouse benches and in forcing-pits or hot-beds, but not in the open ground.

VETERINARY.

***Conducted by Dr. H. J. Detmers. ***
Veterinarian of the Ohio Agricultural Experiment
Station, and Professor of Veterinary Surgery
in Ohio State University.

To regular subscribers of FARM AND FIRESIDE, answers will be given through these columns free of charge. Where an immediate reply by mail is desired, the applicant should enclose a fee of one dollar, otherwise no attention will be paid to such a request. Inquiries should always contain the writer's full address. Queries must be received at least two weeks before the date of the issue in which the answer sexpected. Subscribers may send their veterinary queries directly to Dr. H. J. Detmers, 35 King Avenue, Columbus, Ohio.

Ringworm.—P. F. J., Kenton, Ohio. If your horse has ringworm apply the remedies prescribed in several recent answers, given to similar questlons. The "breaking out on the body, resembling hoils," was probably caused by dirt and want of grooming.

Spavin.—S. S. L., Buckhannon, W. Va. Your description of the lameness points toward spavin, but does not enable me to make a definite diagnosis. I hardly think that West Virglnia winters are mild enough to make any horse feel comfortable at night, if compelled to stay ont doors.

Hlind Staggers.—S. J. W., Bridgeville,

pelled to stay ont doors.

Blind Staggers.—S. J. W., Bridgeville, Del. You can prevent it, in most cases at least, by a suitable diet (rational feeding and keeping), good hygienic conditions and judicious exercise. As to a remedy, that is altogether a different thing. The treatment will largely depend upon circumstances, and it is always best to send immediately for a veterinarian and to leave the treatment to his judgment before the case becomes desperate and recovery impossible.

Lice.—A. B., Portersville, Pa., would like to

Lice.—A. B., Portersville, Pa., would like to know if ithere is anything that can be fed a yearling colt to kill lice upon it?

Answer.—Since the ilee are not in the stomach, but on the surface of the body, between the hair on the skin, nothing that can be fed will kill them. The remedy must be applied where the lice are. Cleanliness and good grooming is the first requisite, and if this is applied, genuine Persian insect powder, if dusted in between the hair, will drive off the lice. Immediately after the application the stall must be thoroughly cleaned, and all bedding, manure, etc., be removed, because a good many lice tumble off before there are dead, and afterwards revive again.

An Obstruction in a Cow's Teat.—J. P.,

and afterwards revive again.

An Obstruction in a Cow's Teat.—J. P., Round Hill, Coun., writes: "I have a cow with an obstruction in one of her teats. Before we can get a drop of milk out of it, we have to insert a knitting needle. After withdrawing it the milk flows as well as usual."

Answer:—Instead of a knitting needle use antiseptic catgut, cnt it in snitable ends, and before inserting it dip in a mixture of subactate of lead and oil (13), and fasten the projecting end with a strip of adhesive plaster to the teat, so that it cannot fall out. When milking, milk away the first milk, and after milking insert a new end of catgut, but see to it that the latter is in no way contaminated by dirt before the Insertion.

Bots.—W. S. B., New Straitsville, O. Bots,

dirt before the Insertion.

Rots.—W. S. B., New Straitsville, O. Bots, the larvæ of Gastrophilus equi and other kinds of genus Gastrophilus, may become ininrious, but it does not proceed from your letter that the same caused serious injury to your colt. When yon say the bots were full-grown, yon are mistaken, for they are not yet full-grown in December, and not until toward spring. What you say of the color of the mucous membrane of the stomach shows that you are not familiar with the natural color of that membrane, which presents a whitish color in the interior or cardiac portion, and a velvety, reddish-gray color in the posterior or pyloria portions of that organ. If you had looked further, very likely you would have found the cause of death. It does not appear from your letter that the bots killed your colt.

A Fistule.—R. H. S., Arvilla, N. Dak. The

further, very likely you would have found the cause of death. It does not appear from your letter that the bots killed your colt.

A Fistule.—R. H. S., Arvilla, N. Dak. The treatment of a fistule, and that is precisely what the would you describe is, now requires treatment by a competent veterinarian. But as you live in far-off North Dakota, I will endeavor to give you a brief description of the treatment necessary. In the first place you must, by careful probing, perhaps with a whalebone probe, ascertain the depth, extent, and possible complications of the fistulous canal, also whether or not a foreign substance, which supports the suppuration, is present. Such a substance, no mater what it may be, must be extracted. This done, care must be had to provide for the pus a free and unimpeded exit. Pus, like water, does not run up hill. Hence, it will, in most cases, be necessary to enlarge the existing opening, or even to make a new one, draining the lowest part of the fistulous canal. All this accomplished, the callous walls of the old fistulous canal must be destroyed. This is usually done by caustics, such as sulphate of copper, corrosive sublimate, etc. If it has to be done by injecting a solution, the injection invariaby must be made upward through the lowest opening, because if made downward a new canal may be formed in the connecting tissue between the muscles, by the force of the injection and the weight of the fluid. It is, whenever applicable, a better method to introduce a tug of absorbent cotton saturated with the solution, and then renew it twice a day or oftener. In your case, you may use as a caustic, first, a concentrated solution of sulphate of copper (I:4). If you have to inject it, use a glass syringe; at any rate none made of metal. As it is impossible to describe, without having

seen the case, at what time you have to cease the use of the strong caustic, you may prepare enough, say, for eight or ten injections, and then each time you have made an injection, fill np your bottle with clean water, so that the quantity will remain the same, but the strength be constantly weakened. Make two injections a day, and keep the wound scrupplously clean, but when washing it, use nothing but clean, warm water, no soap. Continue the injections with your finally much-diluted material nutil healing has set in.

Rig Wead.—C. W. R. Benklemen, Neb.

ing bnt clean, warm water, no soap. Continue the injections with your finally mucb-diluted material nntil healing has set in.

Big Head.—C. W. B., Benkleman, Neb. What you call big head may have several causes. If it is only a slight enlargement of an inflammatory character, and not distinctly limited, it may be due to a bruise, etc., especially imited, it may be due to a bruise, etc., especially in a young animal, in which the plate of bone covering the roots of the teetb is very thin. In such a case, especially if of several weeks standing, repeated applications of an oiutment composed of biniodide of mercury and lard, 1:24, rubbed in once every three or four days, has often a good effect. What you consider as a broken tooth is probably a milk molar, ready to drop out after its root has been absorbed. It is worth while, though, to make a careful examination of the animal's mouth, because it is very well possible that an irregularity of some kind, a damaged or diseased tooth, for instance, constitutes the cause of the swelling.

Blood Spavin.—A. T. Y., Chicago, Ill. Blood spavin consists in an abnormal enlargement of the vein (vena saphena) on the inner interior surface of the hock joint, and is a comparatively rare occurrence. There is no cure. Sometimes an operation of very questionable value, is performed for the purpose of removing the enlargement. Bog spavin consists in an abnormal expansion of the capsular ligament caused by too great an accumulation of synovia. It also has its seat on the inner anterior surface of the hock joint. A permanent cure of this blemish, too, is but seldom effected, because the removal, usually, is only a temporary one. If you mean this latter blemish, you may use either gentle pressure, applied by an elastic bandage of woolen flannel, to be renewed twice a day, or may use some iodine preparation—tincture of iodine, iodine dissolved in cod-liver oil, 1:16, or an ointment of iodide of potash and lard, I:12,etc.—but not too much must be expected of any treatment. The iodine prepa

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THE OLD LOVE.

Soft is the light on the summer sea, When the sun in the west is low And the billows sigh to the shells that lie In the sunset's mellow glow; But the beauty gleams in vain, And the tints that wax and wane And the song of the surge At the ocean's verge Seems nanght but a dirge,

For 0!

My thoughts fly far, 'neath the evening star

The wind comes np from the sighing sea, And the sea-bird's wing of snow Fades from my sight in the clasp of night, Like joy in the arms of woe:
And I dream by the billows blue Of a heart that was leal and true. And I vow by the tide, Though fate may divide My faith shall abide,

To my love in the long ago.

And grow And my _eart ever turn while the bright stars burn To my love in the long ago.

-Samuel Minturn Peck.

THE NUGGET GRUB-STAKE GULCH

BY JAMES OTIS.

CHAPTER V.

CONVALESCENCE.

the following morning the stranger had so far recovered as to be able to converse rationally with those to whom he was in-debted for his life, and when, at noon, Little Bill ushered, with an air of triumph, the physician into Seth's house, it appeared as if he had been summoned without sufficient cause. "I allowed the man wasdying,"

he said in an impatient and disappointed tone, "otherwise my friend, who got the drop on me before he explained what was wanted, might have had some trouble iu forcing me to ride an hundred and forty

"Mr. Morey appeared to be, and I believe was very sick when you were sent for," Seth replied; "but I had no idea the messenger intended to bring you at the point of a revolver."

"My orders was to fetch him dead or alive, an' I didn't reckon on givln' him much of a chance to pump lead inter me while I was coaxin' him to come," Bill replied, as if he could see nothing ont of the usual course in his summary proceedings.

"Well, I'm here now, an' we'll have a look at the wound," the doctor said, opening his case of instruments; but he did not begin the work at once, for at this moment Alice entered the room, and he turned to stare at her in undisguised astonishment.

"This is my sister, Miss Hammond, Doctor-"

"Taylor," the physician added; and Seth continued:

"She had a few simple remedies, and with them succeeded in breaking the fever.'

"A patient who wouldn't get well under the care of such a nurse deserves to die," the doctor said emphatically; and Morey added:

"Even a tenderfoot like myself understood as much as that, and the proof is that I am feeling decidedly better. A little attention to the wound, and then I will try to repay you for the long rlde."

"The boys will see to that part of it," Little Blll said quickly. "Come over to the Palace when you're through carvin' him, an' we'll show you what kind of a town St. Julian is."

With this invitation the messenger left the house, and Doctor Taylor began the "carving."

When the physician's work was finished he ident intention of cultivating the acquaintance of the invalid and his nurse:

"You'll be as sound as ever in a couple of days; but it was Miss Hammond, not me, who has saved you from what would have probably been a severe illness."

"I am afraid the debt of gratitude will be greater than I can ever pay," Morey replied. "She also saved me from belug hanged, as you may possibly know.

Little Bill had not told this part of the story, and Seth was called upon to describe the scene at the proposed lynching-bee.

The doctor appeared to think the mistake a natural onc, and, to Allce's surprise, even viewed the whole affair in a comical light. He laughed heartily at times, and congratulated Morey upon his escape from death by savlng:

"Two or three little scrapes like that one will give you a mighty good idea of the conutry, providin' you're lucky enough to live through them."

"If my education is to be purchased at such a price I would prefer to remain Ignorant. The property I own didn't cost so much but that I can afford to lose it If any more of those delicate attentions are to be apprehended."

'Have you bought land near here?" Seth

asked in surprise.

claret-like name."

"Do you know where the land is located?" "That can easily be told hy overhanling the

documents which are to be found in one of my pockets," Morey replied; and Seth handed him a small package of papers.
"Look them over yourself," the invalid said,

and his host had hnt inst begnn to read when an exclamation of surprise burst from his

lips. "Why you own next to mine; the one a Greaser proved up!"

"I was told a Mexicau had been working it. Is it good for anything?"

"I have been hunting in vain for color close alongside of it, and in two months have found no more than I believe the previous owner buried himself."

"Luckily there is no reason why I should stay here any longer than I wish," Morey said; and then as he glanced toward Alice, who was in the adjoining room preparing dinner, he added quickly, "I'm bound, however, to see how badly I have been taken in. Suppose we go into partnership, Hammond? Your claim is probably as valuable as mine, and the only advantage will be that we shall have increased facilities for digging."

"When you are able to look the property over I'll accept the proposition, provided you are then willing to repeat it," Seth replied gravely. "I have not had much experience in such matters; but yet I feel that a true vein will be struck thereabouts."

"Then I'm a member of the firm of Hammond & Morey," the invalid said laughingly, "and your sister shall have a third interest in the very valuable claims."

The business arrangements were interrupted by Alice, who summoned the doctor and her brother to dinner, and while they were eating she hrought Morey a tempting-looking broth. "Can you manage to feed yourself?" she

at that time the camp hadn't taken ou its "Now see here, stranger, the Junction is a lowdown kind of place, with more Greasers than men in it, while St. Julian is jest humpin' herself. Give that crowd over there the go-by, an' settle down here with ns. I'll chip in a lot on my quarter section where you can put up a tent, au' three of the boys shall come 'round every mornin' when trade's dull so's you can keep your hand in by dosiu' 'em. What's more, they shall pay for it too. We won't stick at nothin' for the sake of helpin' along the hoom that's strnck this 'ere town. Is it a bargain?" aud Mr. Grant winked at his companions as much as to say that they should unite with him in trylng to effect a favorable

"What Joe says goes," Jake shouted. "Why, doctor, you'd he strikin' a reg'lar snap here, cause the boys are lively, an' we're willin' to give you a benefit by gettin' up a shootiu' match if you're down on your luck."

Other reasons equally as alluring were given in the hope of inducing the desired adjunct of the town to make a change, and when it was possible the doctor promised to think the matter over.

"I'll give you an auswer in a day or two," he said in conclusion. "St. Julian is a mighty lively town, and I'd like to make the deal if the matter can be arranged."

"Then that settles it," Mr. Grant shouted, with a resounding thump ou the bar. "If anything interferes send word over here, an' we'll soon straighten matters. I ain't so young as I used to be, but when it comes to cleauin' out a town like the Junction, Conestoga Joe is there every time, au' them chumps have got to be mighty haudy if they get away with him.'

These eloquent remarks were received with such a storm of applause that the proprietor of the Palace could do no less than "set 'em up agin," and while this formality was being complied with Seth made his escape.

He went directly home, and there found Morey and Alice chatting as if they bad been friends for years, a fact which caused him



he had had no difficulty in using both hands, he replied most decidedly:

"I am positive that it would be impossible, therefore I shall be obliged to trespass upon your kindness a while longer."

Without suspecting that this was not the exact truth, Alice fed hlm after tucking a snowy napkin under his chin, and to his ing her to frown," Morey sald with a langh. shame, be it recorded that he ate very slowly, iusisting on receiving the entire quantity. Then, as if exhausted by the effort, he leaned hack on the pillows, allowing her to fan hlm until the physician and Seth returned to the

"I'm sorry you are so weak," the doctor sald with a hearty laugh; "hnt at the same time I don't helieve you will need my services any longer, therefore, after looking in ou Couestoga Joe, I'll strike ont for home."

Morey insisted on paying the physiclan, and with a generous fee in his pocket, the latter, accompanied by Seth, left the building to

Several of the miners, notably those who took advantage of any opportunity to knock off work for a loafing spell at the saloon, were assembled to ald Mr. Grant In his efforts to persuade the doctor to make his home in St. Julian, and the negotiations were begin by means of a bottle and sundry glasses.

Each man in turu appeared to think it his dnty to "say something" in order to sustain the reputation of the town, and the meeting was at that stage where noise replaces wit, when Mr. Grant made his proposition.

"St. Julian has got pretty much everything she needs except a doctor, an' we're bound to "Yes, through some partles in 'Frisco; but have that mighty soon," the proprietor began. I former said:

asked; and although a few moments previous | will make out the articles of co-partner-

"There is plenty of time for that," Seth replied gravely. "Perhaps I have no right to do anything which may cause you to remain here, for I must say that I have seen nothing to Indicate ultimate success."

smiles only when "Fancy how she was gazing at me when you and your sister saved my life. Now I am

He was interrupted by a loud knock at the door, and when Seth opened it, Big Bill en-

"Us boys agreed to do our share of takin' care of the sick man," he said as he stepped into the room, "an' seein's how the doctor said he was where he needed watchin', I've come over to stand my trick."

"I don't understand why Taylor should say anything of the kind," Seth replied in surprise. "Morey will be toddling around by tomorrow, and the Idea of having watchers is simply ridiculous."

"That's what the doctor said;" and Bill looked at the inmates as if fancylug some kind of a trick was belug played upon hlm.

The invalid's cheeks flushed as he thought of what the physiciau inight possibly have meaut; but It was not for him to give a key to the puzzle, and he remained silent.

Although he could see for himself that his services were not needed, Bill showed no disposition to take his departure. He related all the particulars of the doctor's visit to the Palace, and when Seth finally proposed that lt was time for the slck mau to go to sleep, the

"I reckon that means you an' I had better go into the other room to give him a chance;" and Bill calmly walked into the adjoining apartment, followed, as a matter of course, by Alice.

The visitor seated himself iu a chair near the door, much as if it was his intention to remain an indefinite time, motioned that Seth's sister should make herself comfortable, and began abruptly:

"If it wasn't that Conestoga Joe is only waitin' for this same kind of a chance I wouldn't a' rushed things so; but as it is I'm bound to go ahead 'cordin' to surface indications, an' if I don't strike a true vein there cau't be much harm done."

"I am afraid I don't understand yon," Alice said in a tone of perplexity. "What has Mr. Grant to do with your offering to take care of the invalid?"

"Why he'd come here to-uight instead of me if business hadn't been so rushin' at the Palace. Say, do you know I've struck it rich?"

"Does that mean that you have found gold?" "In pockets, Miss, in pockets. I reckon the claim I'm on now will pan ont hig."

"I am glad to hear it," Alice replied heartily. In a place like this all should rejoice at another's good fortune."

"But they don't, an' I ain't sure whether I've got the right kind of color." "I thought from what you said that there

could be no question about it." "That depends on what I'm pannin' out now, au' I ain't snre as I know how to work

the claim.' "I don't understand what you mean;" and now Alice looked thoroughly perplexed.

"It wou't take long to give you an idea of the vein I'm tryin' to strike. I own four of the neatest claims that ever struck a tenderfoot's eye, an' can lay out jest as many as may be needed. If Conestoga Joe hasn't made any mistake about the boom he says has struck this town, I'll come out top of the heap; but tbat ain't enough."

"What more do you want?" Alice asked, understanding only a portion of his remarks.

"I want to marry you," Bill said abruptly, blushing like any school-girl, and then continuing so rapidly that it was impossible to interrupt him, "if you'll say the word I'll pnt up a house that'll knock the Palace higher'n a hurnt boot, 'canse I'm gone on yon for a fact. I'll wear a biled shirt every day; 'tend to rnuniu' the shebang, an' agree to get a conple of Chinee to wait on you to the Queen's taste. Say, is it a go?"

"I'm sorry Mr. — Mr. —"
"Call me Bill," was the mournful interruption, "an' if you're countin' on copperin' my bet it'll kinder make the thing go easier. I

never did have much luck anyway."
"I'm sorry, Bill," Alice said softly, "that you had any such idea, for it can never be, if you mean that you want to marry me. I consider you one of my best friends; but it isn't well for you to think of more.'

"You can't stop my thinkin'," Bill replied in a voice which he vainly endeavored to render steady; "but so long as this thing hasn't panned out as I counted on, will you do me a

"Certainly; anything in my power."

"Then don't let on to Conestoga Joe that I made sich a cussed fool of myself."

Before she could reply he had rushed out of the house, and Seth came in to learu the cause of the noisy departure.

CHAPTER VI.

THE DOUBLE CLAIM.

Nothing would have pleased Ned Morey better than to play the part of invalid many days in order that he might be waited upon by the girl who had saved his life; but ou the second day after the physician called he looked so strong that even his fertile imagination could devise no excuse for remaining in-

Thanks to an almost perfect constitution, the wound had already begun to heal, and gave him very little trouble, although, as a matter of course, any violent exercise might have been attended with disagreeable results.

The first business he transacted was regarding his horse, which had been takeu in charge by Mr. Grant, and in doing this he was forced to visit the Palace, where, just at that moment, were several of the miners who had beeu most prominent in the effort to lynch

This nnimportant fact, however, did not cause the actors in what had been very nearly a tragedy, the slightest embarrassment. They greeted him with a cordiality emphasized by nolse, and but for his decided protests would litterally have forced him to drink with each

"Better have one social ulp," Mr. Grant said

CONSTIPATION

all disorders of the stomach, liver, and bowels, removed by using

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persausively, as he began to decorate the bar with glasses, "an' then we'll call it square."

"I am sorry to be obliged to refuse," Ned replied; "but owing to the present of a bullet from some gentleman in town, the doctor declares that it would be very dangerous for me to take anything in the way of stimulants."

"All hands feel asliamed of that, Morey;" and the worthy proprietor's voice almost trembled with suppressed sorrow. "It gives a stranger sich a bad idee of the town to know the boys can't shoot a little bit. It's what you might call a disgrace; but I don't reckou any of 'em'll miss the next time."

"Don't apologize for not killing me," Ned said with a hearty laugh. "It was fortunate their hands were a trifle unsteady, and also that the remainder of the performance was postponed a few hours."

"Oh, that's all right;" and now Mr. Grant spoke In a cheery tone. "Mistakes will happen, you know, uo matter how careful a feller may be. Say, come over some time an' I'll show you where we plauted the sneak what got away with your hoss."

"Thank you; it will be very pleasant to see where I would have been buried, and I shall take advantage of the first opportunity. What I particularly came for this afternoon was to pay you for the care of my horse: Hammond says you have him."

"Yes; turned him in with my ponles; but out this way we ain't in the habit of chargin' sich little accounts to our friends. Leave him where he is 'till you need him. I'll go ball that there isn't a thief in this section of the country as dares to trail him out of my

Ned thauked the generous proprietor; had very little difficulty in persuading the gentlemen to allow him to pay for a certain amount of liquid refreshments to be consumed by themselves, and then asked where Seth's claim was located.

Mr. Grant stepped on the pranda to point out the direction, and once there took advantage of the opportunity by saying:

"If you're thinkin' of buyin' land 'round here-an' the biggest kind of a boom has struck this town-I've got the best quarter section to be found within a hundred miles, which I'm willin' to split up with you, seein's how we'd like to have you stay with us."

"I will remember the propositiou if I conclude to make any more investments. Just now, however, I own the claim next to Hammond's, and want to see what that is worth before taking hold of anything else."

"So the Greaser unloaded on you, eh?" Mr. Grant sald reflectively. "Well, you're stuck; the claim ain't worth the powder to blow it inter the next county, au' Seth's is about the same value. Why I wouldu't grub-stake a man if he owned fifty sich claims."

"It won't be a very serious matter if I never get a cent out of the land; but I propose to make one trial at least;" and Ned walked away, the proprietor of the Palace muttering as he returned to his friends:

"It'll come pretty tough if I can't do what a Greaser has done, an' I'll finger his pile before many days, or my name's Jacob, which it

Ned had no difficulty in fluding "Hammond's folly," because while yet some distance'away, he could see its owner sitting near

the scene of his labors as if in deep study. "Hello!" he shouted. "What's the matter? Trying to decide how it will be possible to get

all the gold out?"

"So you're taking a walk, eh?" Seth said gloomily; and after a short pause he added, Yes I was trying to figure how I could get the gold out; but my calculations went no further than the amount I invested here. With that in my pocket once more I'd never put pick in the ground within a long distauce of Grubstake Gulch."

"Anything new happened to discourage

"No; it is the same old story. I force myself to believe f shall strike a vein; but it is pretty hard work to have faith when everything looks

"Don't get discouraged so easily;" and Ned

seated himself by his friend's side. "So easily? If four months of hard work with not a teaspoonful of color to show is not enough to make a fellow doubt, then I'll own

up to a lack of faith." "You found some at the start?"

"Yes; but the claim had been salted; there can be no question about that.'

"And my property is most likely in the same coudition.

"Probably the Mexican didn't even take the trouble to do that much, inasmuch as you were a long bit from here at the time it was

purchased. Ned walked a short distance away to an excavation which Seth had said was the "hole"

he owned, aud after a hasty examination of the surroundings returned, saying as he threw himself on the ground:

"I've got a proposition to make, Hammond, and I want you to consider it seriously. One of these claims is worth about as much as the other, since both are believed to be valueless. I wish, however, to be certain there is nothing here; but it will be some time before I can do auy very hard work. As I proposed day before yesterday, let us form a partnership, hire two or three men, and make a short job of learning how badly we have been done up in the double claim. You can take charge of the operations, which will be an offset to the money I advance."

Seth shook his head.

"That is a one-slded arrangement to which I cannot agree. You feel under some obligatlons and want to square matters by paying me in that way."

"Now you wrong me, Hammond. I swear that even If I had not been the especially invited guest at the lynching-bee, but had come into town with all the pomp and circumstance of a conqueror, the same proposition would have been made, with the slight exception that I should not have stipulated to be allowed to remain idle. It is cheaper to do the work quickly, paying laborers therefor, than to stay here month after month, since the cost of living would soon amount to more. Now is it a bargain?"

"It is almost throwing money away."

"That may be; but yet I shall try it alone unless you join me, and will be obliged to loaf until the wound has healed. By means of a partnership the work can be begun to-

Seth could uo longer doubt but that the offer was made purely in a business sense, without any regard to what had so lately happened, and after some further conversation he consented, the articles of the agreement being nothing more formal thau a hearty hand-

Until nearly nightfall the partners discussed the manner in which the venture should be started, Seth proposing that his plan of labor be abandoned entirely and a new one formed, and only when all the details had been decided upon did they turn toward home.

If the gold seekers had left the double claim half an hour earlier they would have arrived in time to welcome a very gorgeous visitor, concerning whom Alice made no meution even to her brother, until several days later.

Although the iuvalid's appetite was all that could have been desired by a well man, she thought it her duty to prepare a series of tempting dishes for supper, and was busily engaged in her work when the trampling of horses' hoofs in the immediate vicinity of the house caused her to glance involuntarily out of the window.

A visitor had arrived, and his general appearance iudicated very important business. It was the proprietor of the Palace, Mr. Grant. He was mounted on a spirited buckskin pony, over whose yellow hair the flowing skirts of the brass-buttoned coat waved in striking contrast. A silver-trimmed sombrero, top-boots and jingling Spanish spurs completed the outfit, so far as the rider was concerned. As for the steed, he seemed literally weighted with ornamentation; from the heavy saddle to the wicked-looking bit depended glittering chaius, "furbelows and fardens" until the leather was nearly hidden by

Mr. Grant also led by the bridle a trim little horse on which was a side-saddle, and whose decorations were even more lavish than the one he bestrode.

Under ordinary circumstances the proprietor of the Palace was not an agile man, owing to superfluous flesh and an asthmatic tendency; but on this occasion he leaped to the ground much as a boy of fifteen might have done, and knocked at the door so gently that the noise could well have been mistaken for the sigh of a June zephyr.

It was Impossible for Alice to make any mistake as to why the second pony had been brought, and her cheeks were of a rosy hue as she opened the door in response to the soft summons.

With many a bow and alleged courtly flourish, Mr. Grant said in a languishing tone:

"Most respected Miss, knowing as you was fond of ridin', an' seein' as how you wouldn't keep the pony I sent the mornin' after you got here, I've come for a great favor."

"One glance at that side-saddle is enough to tell me what you are about to say." Alice replied, struggling very hard so prevent a smile from visiting her lips. "I should dearly love to try that beautiful little horse; but Mr. Morey aud Seth will soon be home for supper, and as the cook of this mansion I must be here to receive them."

Your brother can fry a piece of bacon to the queen's taste, as I know by experience, so there'll be no harm done if you leave him to shift for himself while I show you the natural attractions of St. Julian. We don't count on havin' anything as fine as Seth had sent on from the east, for nothing could be fairer than you, Miss;" and at this point Mr. Grant bowed until it surely seemed his splnal column would be rent asunder; "but I want you to see what a reg'lar garden of Edeu we've got, an' corner lots are bound to go sky high now you're

These compliments, supplemented as they were by the most wonderful contortions of body, caused Alice so much embarrassment that she could think of no fitting reply, and could only say:

"Won't you come in, Mr. Grant? Seth will soon be home."

"Theu you don't count on takin' a ride tonight?"

"However much I might like to, it would be impossible, for even if Seth can get hls own supper, I couldn't neglect a guest."

"Meanin' that you can't thlnk of goin' 'cause that tenderfoot Is here?" and Mr. Grant allowed himself to speak in an angry tone.

"Because the gentleman who has been treated so cruelly in St. Julian is in our charge," Alice replied quite sharply.



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"Now don't fly off, Miss," Mr. Grant said Imploriugly. "I didn't mean nothin' by that, only it kinder put me out for a miuute. You see I was countin' on doin' the honors of the town, an' the boys will have the drinks on me when I go back to the Palace an' say you wouldn't ride after all this fuss."

"I am very sorry, Mr. Grant; but you must certainly understand the situation of affairs, and realize that I can't leave a guest to cook

his own supper.'

The proprietor of the Palace could not trust himself sufficiently to make any reply. He bowed very ceremoniously, cast one look of reproach at the woman he would have honored, mounted his steed after considerable difficulty, and rode away like a very crude model of Jove in his wrath.

On the veranda of the Palace were seated half a dozen of Conestoga Joe's best customers, waiting to see him ride by with Seth's slster, and these he passed with not so much as a glance of recognition, when he dismounted in front of the establishment and was greeted with certain remarks not calculated to make lilm feel any more comfortable in mind.

Stalking inside he refreshed himself after his own fashlon, and then beckoned for Big Blll to join him.

"You needn't ask any questions," he said angrily, before his friend had an opportunity to speak. "She wouldn't go, an' I know the

"What is it?" and Bill spoke so quickly and eagerly that Mr. Graut looked at him suspi-

"Have you been tryin' your hand at that game?" he queried thoughtfully.

"Well, seein's how you've beeu done up so brown I don't miud sayiu' that I dld try to strike the vein."

"What did she say?"

"I reckon you've got a pretty fair Idee by this time. Anyhow, she let me know it wasn't any use prospectin'on that lead."

"See here, Bill, It's all the fault of the tenderfoot;" and Mr. Grant spoke in a hoarse whisper. "If we can drive him outer this town we'll toss up to see who shall have her, an' then go in to win. Will you line me?" "How can you make him skip?"

"I'll 'tend to that part of it. Say it's a go, an' the thing will soon be in workin' order."

"An' you wou't try to get the best of me after we've done him up?" "It shall be a square toss, an' the one who

wins has a lone hand." "Then I'm with you," Bill replied emphatcally . "but we mustn't

"You know me, Bill," Mr. Grant said with an eloquent gesture, as he placed two glasses on the bar.

[To be continued.]



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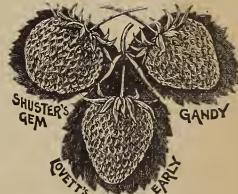
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Our Kousehold.

FARMER JONES' LAMENTATIONS.

The summer sun behind the hills had sunk away from sight,

But his flery heams flaunted in the face of comlng night;

And the western skles were hounded by a gold and crimson har,

And from 'mongst the purple cloud-drifts peeped out the evening star;

When, with many groans and murmurs, good, honest Farmer Jones

Sat down upon the door-step to rest his aching hones.

The sunset dimmed and faded, and the song of whlp-poor-will

Came floating o'er the meadows, from the forest dark and still;

And the frogs were hoarsely croaking in the marsh land far away,

And the dewy hreeze was laden with the smell of new-mown hay;

But the farmer, vexed and weary, saw no heauty, heard no souud; His head was resting on his hands, his eyes

were on the ground.

His rugged face, with wrinkles seamed, was darkened hy a frown,

For Neighbor Smith had told him that the price of wool was down! And so he sat and grumhled in the twilight hy

himself, And searched his mind for cuss-words that he'd lald upon the shelf,

'Till at last his guardian angels were completely put to rout: Theu Farmer Jones lost all control, and flercely

he broke out: 'Confound this farmin' business-the whole

blamed thing, I say! I can't git nothln' for my wool, nor nothln'

for my hay; The corn won't he more'n half a crop, an' hogs

aint wuth a cent; (Just here he shook his horny fist to give his

feelings vent.) An' taxes are so tarnal high, they're most up to the moou.

I'm hiest if I don't emigrate from this world purty soon!

"An' there's that pesky hired man must fall down thro' th' mow!

I wish he'd hroke his awkward neck; he's no account nohow;

'stld o' that, he breaks a leg, an' now he's laid up here.

The doctor says he'll do no work for up'ards of a year;

'so I'm left without no help, for Jim's away I spect that scape-grace hoy'll come home an

eddicated fool.' The lrate farmer paused for breath, but look-

ing up just then, He saw the cows file down the lane, so he

hroke out again: "By dad, an' there's th' marketln'! The butter

an'th'algs. They wouldn't keep a heggar in a passel of old

I'm dummed if I don't sell the farm, an' move away to town!"

took his red handanna out, and mopped his shlning crown. "An' there's that blasted Jim o' mine; he

doesn't seem to keer. I wanted him to take the place an' farm it on

But no, to college he must go, an' a har'l o' money spend.

I'm dlnged if he wa'n't horn a fool, an' will he to th' end.

There comes Debby from th' milkln'. I don't b'lieve she'd complaiu

If all th' hay in chris'eudom was soakin' in th' rain!"

Sweet, pleasant-faced Aunt Debhy came toddling toward the house. She was plump as any kitten and as quiet as a

A dear, good Quaker lady-just here I'll pause

That she ruled her hlg, rough husband in a firm but gentle way.

She knew that John was angry hy the way he mopped his head.

And, too, ln coming down the lane she'd heard the words he sald.

She set her milk-palls on the ground and drove away the cat, And said: "I heard thee grumbling, John.

What is thec angry at?" Awhile in sullen silence he sat and flercely

gazed; Then the stalwart frame was shaken and a

troubled face was raised. "Why, dum It, Debby!" Here he paused, and smote his brawny chest,

And then in milder accents, he told her all the rest.

She smilling stood, and listened to his lamentations long.

And then she said: "John, don't thee know thee's doing very wrong?

Thee has a good farm clear of deht, and money in the hanks.

And yet thee sits here growling, instead of glving thanks.

lomplaining of the price of crops! Thee gets what others do.

And if thee has to lahor hard, why so thy wife | situde and other ailments that frequently does, too.

'And just hecause the hired man is laid up, lnjured, here, Thee raves about the coru and hogs as tho'

'twere famlne year. But, John, the very worst of all, thee stormed about our sou.

As though he were a criminal, that some great

crlme had done; And all hecause he's gone to school-the very

thing thee named-And striving hard to please us both. Thee ought to he ashamed!"

She took the mllk-palls from the ground, and toddled from the spot.

His face was strangely working, and the tears were falling hot;

And ere he went to hed that night, he knelt upon the floor, And prayed for God's forglveness as he never

had hefore. When he'd finlshed his petitlon to the heaven-

ly throne of grace, An angel stood heslde hlm with Debby Jones' S. Q. LAPIUS.

HOME TOPICS.

WHIPPED CREAM.—To whip cream properly, it should be thoroughly chilled first, and if desired, also sweetened and flavored.

it. Skim off the froth as it rises and pile

it on a plate until all is whipped. An

otherwise simple dessert can be made into

a really elegant one by this simple addi-

tion. A dish of canned peaches or pears

with whipped cream is a dessert to be

despised by no one; it is also a pretty

addition to blane mange or jelly.

Whipped cream is not used as much as it

should be, considering its cheapness and

the ease with which it is prepared. "But,"

ter to sell and buy

coffee?

DURING LENT .-

the body. Com-

beset us in the spring, and which we are apt to call malaria.

blue fish are all nice, baked. Have the fish nicely dressed, leaving the head on. Make a dressing of bread crumbs. butter, salt, pepper and a little parsley; moisten it a little, but leave dryer than if for poultry. Fill the fish and sew up the incision. Put it in a baking-pan with a teacupful

of boiling water and a tablespoonful of butter. Let it bake half an hour, basting frequently, and when nearly done, dredge a little flour over the top and let it brown.

Beets, stewed tomatoes and parsnips are nice to serve with fish. Slices of lemon may be used to garnish the dish and a slice served with each piece of fish.

Boiled Fish.-Boiling is the most delicate way of cooking fish. After dressing the fish and removing the head, wrap it in a napkin and put it into boiling,

> When done, take it out carefully, remove the napkin, lay a clean napkin or fish-cloth on a platter, and serve very hot with white sauce.

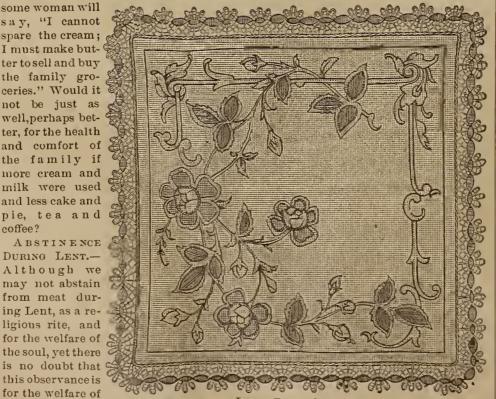
salted water.

WHITE SAUCE.—Heat, in a double boiler, a pint of thin cream, or milk and cream; when it is scalding hot add a heaping tablespoonful of flour rubbed smooth with the same quantity of butter and a little salt. Stir all together until it thick-

LINEN TABLE SQUARE. Any good egg-beater can be used to whip | ens and is very smooth. Serve in a gravy-

SEASONABLE SHOPPING.—One of the cares of the springtime is the wardrobe; and it is a consummation devoutly to be wished to have this all in readiness when warm weather demands a change. Already stores are showing light-weight flannels and serges, ginghams, sateens and other cotton goods, and fashion papers are

giving styles suitable for their making. It is better, I think, to replenish house-

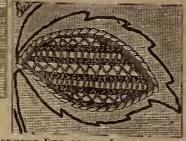


LINEN TABLE SQUARE.

ing, as Lent docs, in the latter part of hold supplies, sheets, pillow-cases and winter and early spring, it is just the table linen in the fall; but if this was not time when the body needs a change of done, there is no better time for buying diet; and whether we call it Lenten fare these, or muslin for underclothes, than or not, we will find fish and eggs at this the present. It is much easier to sit at season both wholesome and desirable, and the sewing machine through the cold, that the abstinence from meat will go far stormy days that we expect in late toward proventing the headaches, las- February and March than when the bright,

warm days of April and May are at hand. Then the spring house cleaning comes, and it is so comfortable to know that the BAKED FISH.—Shad, white fish, bass and spring clothing for the family is all ready

for the first warm days. It is best to begin by taking a day to look over the summer clothing left from last year, and de-



WORKING DETAILS OF LEAVES

cide what will do as it is and what can be made over to advantage; also make a list of all that must be bought. When this is accomplished the work is well under way, and the necessary shopping can be done with less trouble if you know just what is needed and the quantity of each fabric. MAIDA McL.

It's safer heing meek than fierce; It's fitter being sane than mad. My own hope is, a sun will pierce The thickest cloud Earth ever stretched; That after last returns the first, Though a wide compass 'round he fetched; That what hegan hest, can't end worst, Nor what God blessed once, prove accurst.

It's wlser heing good than had;

EMBROIDERED LINEN WORK.

APPARENT FAILURE.-Browning.

.The embroidered linen squares used so much for table centers, are sought for now by our housekeepers as an addition to their linen closet. Those done by their own hands are, of course, the most desirable. Our limited space does not permit us to give it in its full size. The first illustration is twenty-five inches square, and when finished is edged with lace. The embroidery is done in soft file silks, in shades of white that is from white to a



HANDKERCHIEF CORNER.

very pale gray, which has the effect of shading the white so effectively that it looks like shading. If preferred, it can be done in gold silk of one color, and as shown in the working pattern, the leaves are woven in a lace stitch and the material cut away underneath, so as to give it a lace-like effect.

The second cover is twenty-nine inches square exclusive of the lace, which should beset on around it. The simple and yet rich pattern shows two sprays meeting from opposite sides and worked in gold-colored flax thread, which, as may be seen in the single separate leaf, is couched down with white at regular intervals. A broad, openwork hem marks off the inner square.

A beautiful lunch-cloth of linen, worked with very large pansies, was displayed in one of our art stores. Small dovlies, with one large pansy in the center, went with it to lay on the small bread-and-butter plate, which is now used so much.

Dainty table appointments cannot be dwelt upon too much, as they are dear to every woman's heart. There never was a time when so much pride was taken in these things, nor a time when nice things of this description were in the reach of

A lady who is neat with her needle can also, in her spare time, make many things of this kind to dispose of to someone whose time is too full to do them. The exquisiteness of the work enhances its value. It would be useless to undertake it unless a degree of success is assured. To be able to paint with the needle is quite as much an accomplishment as to paint with the brush. Nothing endears home so much as to have its adornments the work of the home maker.

Home is, then, something more than four square walls. Beware, though, of having too mand of its being incongruous with the surroundings. Make your selections, too, in articles of a high grade, as they always look well, even long after they have passed out of fashion. Nowadays it would be almost impossible to keep up in the fashion of fancy work. The people who keep our art stores are constantly importing new designs and

elegant they are, the more they are sought for.

A lady who is neat with her needle can use the new and novel way of marking handkerchiefs for her musical friends. The music staff and cleff is worked in black silk, and the initials a letter of the staffin its proper place. If the initial is different from the staff letters, a larger letter can be worked over the entire staff. It would be better to have it different from the staff in color.

CHRISTIE IRVING.

NEIGHBOR BASSETT.

I want to tell the sisters some of Neighbor Bassett's ways of managing her household affairs. She is one of those sprightly, tidy women, that seem to know

hold of to land her on the safe side of her

One morning a few weeks ago I ran over to her house to borrow some baking-soda, and there she was, tidying up her kitchen, and every few minutes peeping into the oven, fixing the dampers, regulating, the heat, and on the alert for fear something would burn. I suiffed around, and the odor that came from the baker wasu't that of cake or bread, so I said:

"Are you trying something new again?" "Oh, not at all; just fixing up my sausage for summer use, just as I have these many years;" and she deftly turned a steaming crock on the stove.

"Do tell me your formula," I said; "that is one of the things I fail in."

"Oh, it is very easy when you once know how," she smilingly answered. "Just press your ground sausage into gallon crocks until they are full; then set them into the oven and bake until they are cooked all through, say two hours, or even longer. Then take the crocks out of the stove, put a plate and a weight on them and set away to cool. Wheu the grease has fried out of the sausage until it rises to the top and cools, take off the plate and weight; and if there isn't grease enough on top to keep the air all out, melt clear lard and pour over them; tie up closely and set away in a cool place, and they will keep till harvest."

Well another of her managing ways was | And this tedious toil, including spinning,

A securitario de la compania del compania del compania de la compania del la compania de la compania del la compania de la com

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yard or more. They didn't look as date the telephone, the typewriter, indainty and pretty as they did before, and I said:

"Why did you fix them that way?" She laughed at my meddlesome questions and said:

"You know they have never been washed, and laco curtains shrink so badly. new material from abroad. The more Now, they will not need washing this



COLORED EMBROIDERY FOR CLOTH

just which horn of the dilemma to take winter, and in the spring I will let the hem out and wash them, hem them up the desired length again, and they will look almost new."

"Um, yes," I said. "Will you lend me your head-piece when I fix things after

"With pleasure," she replied. "It is like old 'silver,' the more it is used, the brighter it gets." RUTH RUSSETT.

Man's work is to labor and leaven-As best he may-earth here with heaven; 'Tis work for work's sake that he's needing; Let him work on and on as if speeding Work's end, but not dream of succeeding! Because if success were intended, Why, heaven would begin ere earth ended.

PACCHIAROTTO.—Browning.

THE CONDITION OF WOMEN.

The most conspicuous as well as the most beneficent of the changes which this century has witnessed, has been a steady and great improvement in the condition of woman as a result of inventive progress. Within the memory of persons who are not very old, the average woman's life was one of cheerless drudgery. Sixty or seventy years ago there were comparatively few American families whose women folks" did not do all the housework without the aid of servants. It was hard work-brutally hard we should call it in these days-for it was unrelieved by any of the varied appliances that have since been devised to facilitate or obviate it.

> weaving and churning, was performed in houses whose inmates had never heard or dreamed of the thousands of elegancies, luxuries and comforts that are now within the easy reach of the "common people." Then there were but two kinds of occupation open to our young women-housework and schoolteaching-and the latter was accessible to but a limited number, and at small compensation. When invention

LINEN TABLE SQUARE. began to open up this: In changing things around last fall, | manufacturing industries, the area of woman's work grew immensely. Then came the sewing-machine. Meantime, the progress of civilization brought about a better I would have done, to get the desired in which women had a place, multiplied

creased demands for stenographic clerks, and a constant advancement of correct notions of woman's place in the world, have opened avenues in which vast numbers of women and girls are usefully and happily employed. There are few occupations now to which womon are strangers, and the condition of society is immeasurably improved by this multiplication of the employments of woman. Greater than the influence of the schoolmaster or the preacher has been that of the inventor in bringing about the cmancipation and elevation of the "better half" of the human family.—Domestic Monthly.

God be thanked; the meanest of his creatures Boasts two soul sides, one to face the world with,

One to show a woman when he loves her. ONE WORD MORE .- Browning.

FROZEN EGGS.

"Here, mother, are some frozen eggs! What shall I do with them?" is an exclamation often repeated through the winter and spring months. The mother sighs, and replies that they be put in a basin and covered with cold water to draw the frost out. Mother mine, did you ever try putting the eggs into real warm water instead of the cold? Not hot enough to cook them, of course, but warm as you would wash your hands in. You uever will use cold water on frozen eggs again, I'll warrant, after once trying the warm; the yelks will be just as soft and beat up as nicely as fresh ones; and usually the

is impossible to beat out. Putting in the warm water makes the crack in the shell unite so quickly that the white does not have a chance to ooze out and waste.

After standing in the water for an hour or two, where the water has been kept from getting very cold, the eggs should be taken out and laid by themselves, to be used first, as frozen eggs will not keep more than a few days, before spoiling, after they

have been thawed out. I hope the farmer | falo's artists in a high art crockery shop sisters have taken good care of their hens this season, as eggs have been so high priced. Give warm feed and plenty of water; see that the latter dish is often replenished to keep the hens from drinking ice

TWO FAMOUS WHITE HOUSE LADIES.

Of the women who have had fame and greatness thrust upon them by their husbands becoming presidents, but two stand out as possessing more than average brains or showing more than negative characters. Mrs. Washington's tastes were for him and housekeeping, and the official duties imposed upon her as "first lady" were a ceremonious bore.

She went through them with dignity and according to rule, but she counted time thus spent as her "lost days." But Mrs. Abigail Adams, wife of John Adams, is famous on her own score as well as by accident of the position of her husband as president. She had remarkable political insight, and was the first woman in America to demand equal rights for women, and urged her husband, pending the adoption of the constitution in 1776, to remember the women, and said they would not hold themselves to obey the laws in which they had no voice. Of course "John" was talked down in the conven-

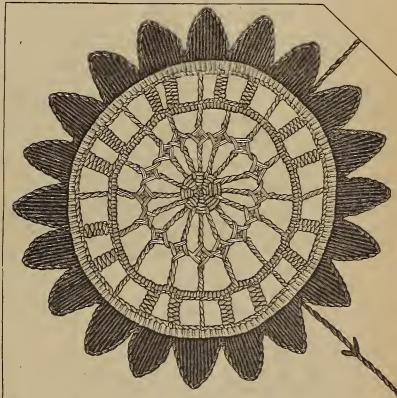
OUR IMPROVED NOVELTY RUG MACHINE uses two needles, coarse and fine. Machine sent by mail for \$1.10. Terms to agents with price lists of machines, rug patterns, etc., free. To anyone who will act as our agent we will send one Machine and a nice Ottoman pattern with yarn to fill it, with full printed directions and a pattern Book, all by mail, for \$1.50. Address, E. BOSS & CO., TOLEDO, OHIO. State you saw this advertisement.

tion, but her son, John Quincy, afterward took up her side in congress .- Pittsburg Dispatch.

Mrs. May French Sheldon, who is to lead an expedition to the Congo in Stanley's footsteps, is a physician of no mean ability, and has also won a roputation as an author and sculptor. She has an enviable position in literary and scientific circles in London, where her husband is the manager of an American banking house.

Miss E. O'Duffy, a young woman about twenty years old, is one of the largest importers and dealers in wild animals in this country. She is the daughter of a Dublin druggist, and has a natural liking for the business. Miss O'Duffy is not the first of her sex to enter this calling, for some of the most successful dealers in birds and animals in Europe aro women.

The many friends of Miss Charlotte Kirkover, the artist, will rejoice to learn that she has so far recovered from her long illness as to be able to resume her work. She is now executing an order for one of the millionaires of. Cleveland for a punch bowl of great beauty. The design, which is her own, is artistic and unique. For the work alone she is to receive \$50. Buffalonians are only just awakening to the fact that they need not send to New York and Boston for artistic china decorators. Indeed, some of Buffalo's best women artists supply these same cities with work which is not appreciated here, and it has happened that all unwittingly a Buffalo yelks are full of little hard lumps that it dame purchased the work of one of Buf-



STAR IN RETICELLA EMBROIDERY FOR CLOTH.

in New York.

INQUIRIES ANSWERED.

MRS. ROBT. McF.—It does fruit no harm to have the thick mould on it that you speak of. It is a sign it is keeping well. CHEAP FIRE-KINDLER.—Geo. W. Hungerford, Stevens Point, Wis. Fill an old

tomato can with any kind of rags or corncobs, pour on kerosene and you have the cheapest and best fire-kindler ever made.

PICKING DUCKS FOR MARKET .- Pick the duck with the index finger and thumb. commencing at the head and picking back. Press the thumb hard against the skin, so as to get the down all off with the feathers. Do not scald the duck until it is uicely picked. Then tie the legs together and tie a string around the body, to hold the wings in their proper place. Pour a little scalding water over the body, and the duck will look plump and nice and is ready for market. EUGENE M. g

Upper Lake, Cal.

SUPERFLUOUS hair removed in 20 minutes, without injury to the skin, by Poudre-Dissolvant, \$1.00 per bottle; put up by Anti-Freckle Lotion Co., Springfield, Ohio.

STAMPING ILLUSTRATIONS of OUTFITS and 6 PERFORATED PATTERNS ED PATTERNS 10 etc. 16 PATTERNS 25 etc. Mention paper. KATES & SON, GREENVILLE, OHLO.

SPOTTED CALLA A FINE, bulb, also copy of Park's Floral Guide for 1891, all for 15 cents. Order at once. This notice will not appear again. G. W. PARK, Libonia, Penn.

TOKOLOGY A Complete Ladies' Guide in Health and Diseas Lizzie N. Armstrong writes. "If I knew I was to the mother of innumerable children it would have retrors for me, so great is my confidence in the scien of TOKOLOGY. I have a strong, healthy but boy, who has never been sick a minute." Bought fro agents or direct of us. \$2.75. Sample pages from ALICE B. STOCKHAM & CO., 161 La Salle St., CHICAGO, L.



length, she hemmer mem up a half a rapidly between 1840 and 1860. Since that

Our Kousehold.

HOW TO COOK CRANBERRIES.

ECIPES adopted by the American Cranberry Growers' Association. 1. Wash them clean and

remove all stems and leaves. 2. Always cook in a porcelain-lined kettle or stew-

pan. Never cook in tin or brass.

3. The sooner they are eaten after cooking the sooner you will know how good

SAUCE No. 1 .- One quart of berries, one pint of water, one pound of granulated sugar. Boil ten minutes; shake the vessel, do not stir. This means a full, heaped, dry-measure quart, which should weigh full seventeen ounces.

SAUCE No. 2.—One quart of berries, one pint of water, one pound of granulated sugar. Bring sugar and water to boil, add the fruit and boil till clear (fifteen or twenty minutes.)

SAUCE No. 3 .- One pound of berries, one scant pint of cold water, one half pound of granulated sugar. Boil together berries and water, ten minutes; add sugar and boil five minutes longer.

STRAINED SAUCE .- One and a half pounds of berries, one pint of water, three fourths of a pound of sugar. Boil together berries and water ten to twelve minutes; strain through a colander and add sugar.

scribed a purchase made by Mrs. Stanford, wife of United States Senator Leland Stanford, of California, as a New Year's gift for Mrs. Harrison. Mrs. Stanford visited the store in company with Mrs. Grant, widow of the general. After selecting favors for a dinner to be given January 15, she purchased, at a cost of \$150, a box made of pearl satin, 20 by 21 inches and 17 inches high. Drooping over the beautifully painted design on the top were ostrich feathers of the natural size embroidered in chenille, and an exquisite knotted fringe and tassels went around the sides. The lining was of quilted satin. The box contained ten pounds of bonbons, the arrangement of which was designed by Miss Pope. Pink and white bonbons formed the stripes of an American shield, in the center of which was a star of fruit. The lower part of the shield was formed of violets, among which were scattered white stars. The whole was tied in with white lace papers and ribbon, crossed above with two American silk flags, underneath which was placed Mrs. Stanford's card.

ABOUT THE SPOTTED CALLA.

EDITOR FARM AND FIRESIDE:-Last spring I sent off and got a bulb of the spotted calla lily. I had it but a little over two months till it bloomed. All my lady friends were anxious to get a lily like it, so I let it go to seed. The seeds did not get ripe, and the plant looked as though it

would die, so I took them off. Now it has all died down, but the bulb seems to be perfectly healthy. I have kept it in dry dirt ever since the tops died. Please tell me what to do for it. I do not want to lose it .- A Con-STANT READER.

ANSWER:-The spotted calla (Richardia maculata alba) is a summer blooming plant, and requires a period of rest during winter, just as the gladiolus or the hyacinth. It is hardy in the south, but must be taken up and wintered in a frost-proof cellar or pit in the north. Our inquirer should keep the tuber till spring, then potitor plant it out. Its renewed growth will be more vigorous

not change its color, as does that of the Indian turnip, which it much resembles, but remains of a green color when the seeds are ripe. Had our inquirer cut the cluster with the stem and hung it up would have been found plump and well CRANBERRY TARTS .- Either of the matured. The engraving represents the spotted foliage and a flower of this calla. GEORGE W. PARK.

CANNING PUMPKIN.

If ever so good care has been taken of the pumpkins, they cannot be expected to keep much longer; and when pie timber is as scarce as it is this year, one feels as if everything in that line ought to be saved that can. We tried canning as well saved that can. We tried canning as well as drying and there seemed to be no show of any failure to keep in the glass cans. The pumpkin was cooked a long time, until it was quite thick, and when put into the cans great care was used to shake and press it down so firmly that no bubbles or air spaces could be seen. It takes quite a little while to fill a can when one is so particular, but it will pay to have patience. Pumpkin settles and seems to shrink when cold, and if you are not careful, the can will not then be full and there is danger of the contents spoiling.

GYPSY.

on FREE. TRUE & CO., AUGUSTA, MAINE.



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turns it up or down, a hundredth part of an inch if you

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18, 1890; Philadelphia Press, May 19; Christian Observer and Medical counts of this wonderful hotamical discovery. The Christian Evaluation of the Wolf o

NATURE'S SPECIFIC The Wonderful Kola Plant.



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See the Free Books offered subscribers, on page 175.



sauces above will make delicious tarts. Strained sauce is generally preferred. CRANBERRY PIES.—For pies with upper

crusts the berries should be used whole and cooked in the pastry in the following proportion: Four parts berries, three parts sugar, one part water.

STEAMED BATTER PUDDING .- Stir the cranberries with a light batter; steam two hours; serve with liquid sauce.

STEAMED CRANBERRY DUMPLINGS.—Use

cramberries the same as apples; steam about one hour and serve with sauce. FROZEN CRANBERRIES .- Some prefer the flavor of frozen cramberries. Freeze them solid and throw into hot water; use one

BONBONS FOR THE WHITE HOUSE.

fourth less sugar than in former recipes.

The Buffalo Courier has mentioned the sensation made in London by tho skill in window decoration of Miss Virginia Pope, of Buffalo, daughter of Capt. F. L. R. Popo and nieco of Charles Pope, United States Consul at Toronto. She is now employed by Louis Sherry, a New York confectioner, and in a recent letter she de-

Our Sunday Afternoon.

THE DAY'S DEMAND.

OD, give us men! A time like this demands Strong minds, great hearts, true faith and ready hands;

Men whom the lust of office does not kill; Men whom the spoils of office cannot buy Men who possess opinions and a will; Men who have honor; men who will not lie; Men who can stand before a demagogue And damn his treacherous flatteries without

Tall men, sun crowned, who live above the

In public duty and in private thinking. For while the rabble, with their thumb-worn

Their large professions and their little deeds Mingle in selfish strife, lo! freedom weeps Wrong rules the land, and waiting justice -Dr. J. G. Holland.

PREACHING AGAINST FORTUNE-

TELLERS.

THE Rev. Father Wall, rector of St. Paul's cathedral, scored the people of his parish the other day, particularly the married women, on the practice of patronizing fortuue-tellers and wizzards who read the past, present and future.

"When a person visits a fortuneteller to ascertain his fortuue, he Ogoes to find out what God alone, and no one else, kuows. Wheu you give to a fortune-teller your presence, and make him or her believe that they have a foreknowledge of seeing the inside view of the future, you adore him and make him believe he has power not given to the devil. If you think he can peer into the future, you make him the equal of God. Therefore, you have strange gods before Him, and violate the first commandment.

"We find youths, young girls, and especially married women, making a practice of this sin. If you deliberately visit a fortune-teller you are indulging in a mortal sin. If you go out of pure thoughtlessness, it is not so bad; but it is a sin, nevertheless. It is the same thing as going to an idol and giving your heart to it. This is idolatry of the worst kind. I would like to impress on your minds that fortune-tellers compose the worst characters in the community. One class of the business is fortune-telling and the other is the seduction and ruin of youth. To my owu personal knowledge I know of persons who have been ruined by consulting these people. I warn all persons of the congregation, and hope you will extend this knowledge, that it is a mortal sin against the first commandment. Avoid them and their nefarious business for the designs they have on the morality of youth."-Pittsburgh Dispatch.

LEARN TO FORGIVE.

Learn how to forgive. Do not carry an unforgiving spirit with you through all your life; it will hurt you more than anything else. It will destroy the happiness of many around you, yet its chief feeding ground will be found in your own heart. You hate your neighbor. Youder is his dwelling, one hundred and fifty yards away. Suppose you pass by a wood fire, and as you pass you pluck a half-consumed brand from it, flaming and gleaming, and, thrusting it under your garmeut to hide it, you start for your neighbor's dwelling to burn it. Who gets the worst at home. We should get all the tenderof it? You find your garments on fire and your own flesh burned before you can harm your neighbor. So is he who carries an unforgiving spirit in his bosom. It stings his own soul like an adder shut up there. I know of some who call themselves Christiaus, who are miserable because of their own revengefulness. Forgive your enemies, and get down on your knees and pray for them, and salvation will come into your own soul like a flood. "Father forgive 'them." Sweet prayer and blessed example.-Rev. R. V. Law-

Deserving Confidence .- There is no article which so richly deserves the entire confidence of the community as Brown's Brow-CHIAL TROCHES. Those suffering from Asthmatic and Bronchial Diseases, Coughs and Colds should try them. They are universally considered superior to all other articles used for similar purposes. The late Rev. Henry Ward Beecher said of them: "I have never changed my mind respecting them from the first, except I think yet better of that which I began by thinking well of. I have also commended them to friends, and they have proved extremely serviceable."

TRUE WISDOM.

There is nothing in this world more desirable than true wisdom, and few things that are more uncommon. Its scarcity might lead to the conclusion that it is something only a favored few can obtain; but this is only the result of man's inexcusable neglect. The source of all wisdom is not an earthly one; and from this source no one is excluded, though he may not be able to attend any high justitution of learning. The apostle James writes: "If any of you lack wisdom, let him ask of God, that giveth to all men liberally, and upbraideth uot, and it shall be given him." The wisdom which God gives is genuine and superior to worldly wisdom. "The foolishuess of God is wiser than men." 1 Cor. 1:25. It is a wisdom that will make itself appareut; for "the wisdom that is from above is first pure, then peaceable, gentle, and easy to be entreated, full of mercy and good fruit, without partiality, and without hypoerisy." Jas. 3: 17. This is the most valuable of all kinds of wisdom, and it is denied to none.—Advent Review.

COURAGE IN LIFE.

Life is not entirely made up of great evils or heavy trials, but the perpetual recurrence of petty evils and small trials in the ordinary and appointed exercise of the Christian graces. To bear with the failings of those about us-with their infirmities, their bad judgment, their illbreeding, their perverse tempers; to endure neglect when we feel we deserved attention, and ingratitude when we expected thanks; to bear with the company of disagreeable people whom Providence has placed in our way, and whom he has perhaps provided or purposed for the trial of our virtue-these are best exercises of patience and self-denial, and the better because not chosen by ourselves. This habitual acquiescence appears to be more of the essence of self-denial than any little rigors of our own imposing. These constant, inevitable, but inferior evils, properly improved, furnish a good moral discipline, and might, in the days of ignorance, have superseded penance.-Hannah More.

SUGGESTIONS FOR YOUNG MEN.

Nothing begets confidence in a young man sooner than a habit of punctuality, sobriety and accuracy.

Money possesses a magnetic power; it stirs the world from its center to its circumference; it shapes the destinies of nations as well as those of individuals.

Those who generally succeed make themselves merchants or business men by their unceasing application and toil; whatsoever their hands find to do they do it with all their might.

Establish a reputation for uprightness, promptness and fair dealing and you are on the road to success; let all your transactions be based on integrity; make your word as good as your bond.

Success is an object most universally desired, and can only be obtained by the exercise of good judgmeut, well-directed energy combined with good habits, industry, economy and perseverance.

LOVE IN THE HOME LIFE.

We ought not to fear to speak our love ness possible into the daily household life. We should make the morning good-bys, as we part at the breakfast-table, kindly enough for final farewells. Mahy go out in the morning who never come home at night; therefore we should part, even for a few hours, with kind words, with a lingering pressure of the hand, lest we may never look again into each other's eyes. Tenderness in the home is not a childish weakness; it is one that should be indulged in aud cultivated, for it will bring the sweetest returns.

CORRECT.

A Congo native who has been taught to read and write, has just sent a letter, his first, to the Archbishop of Canterbury. It is as follows: "Great and Good Chief of the tribe of Christ, greeting: The humblest of your servants kisses the hem of your garment, and begs you to send to his fellow-servants more Gospel and less rum. In the bonds of Christ, Ugalla." That letter hits the nail pretty effectually on the head, doesn't it?

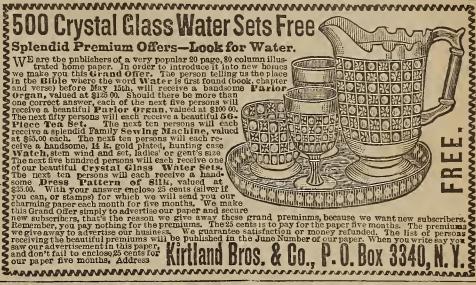


Do you have pains about the chest and sides, and sometimes in the back? Do you feel dull and sleepy? Does your mouth have a bad taste, especially in the morning? Is there a sort of sticky slime collects about the chest and sides, and sometimes in the back? Do you feel dull and sleepy? Does your mouth have a bad taste, especially in the morning? Is there a sort of sticky slime collects about the chest and sides, and sometimes a taste, especially in the morning? Is there a sort of sticky slime collects about the chest and sides, and sometimes in the back? Do you feel dull and sleepy? Does your mouth have a bad taste, especially in the morning? Is there as sort of sticky slime collects about the chest and sometimes in the back? Do you feel dull and sleepy? Does your mouth have a bad taste, especially in the morning? Is there as sort of sticky slime collects about the back? Do you feel dull and sleepy? Does your mouth have a bad taste, especially in the morning? Is there as sort of sticky slime collects about the chest and sides, and sometimes in the back? Do you feel dull and sleepy? Does your mouth have a bad taste, especially in the morning? Is there as sort of sticky slime collects about the chest and taste, especially in the morning? Is there as feeling like a serve the chest and taste the chest and tast

ls your appetite poor? Is there a feeling like a heavy load on the stomach, sometimes a faint, all-gone sensation at the pit of the stomach, which food does not satisfy?

Are your eyes sunken? Do your hands and feet become cold and feet clammy? Have you a dry cough? Do you expectorate greenish colored matter? Are you hawking or spitting all or part of the time? Do you feel tired all the while? Are you nervous, irritable and gloomy? Do you have cvil forebodings? Is there a giddiness, a sort of whirling sensation in the head when rising up suddenly? Do your bowels become costive? Is your skin dry and hot at times? Is your blood thick and stagnant? Are the whites of your eyes tinged with yellow? Is your urine scanty and high colored? Does it deposit a sediment after standing? Do you frequently spit up your food, sometimes with a sour taste and sometimes with a sweet? Is this frequently attended with a palpitation of the heart? Has your tyision hecome impaired? Are there spots hefore the eyes? Is there a feeling of great prostration and weakness? If you suffer from any of these symptoms I will gladly send you hy return mail a sample hottle of the best remedy on earth for the speedy and permanent cure of the ahove-named complaints. This will enable you to test my nedicine free of all cost. No other medicine manufacturer can afford to do this. I know my remedy will cure you ne matter how hadly you suffer. Write to-day, stating your disease. A trial costs you nothing. Address

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Gleanings.

THE SMALLEST CIRCULATION.

EWSPAPERS are always vaunting themselves as having the "largest circulation" in the world, writes a London correspondent in the Critic. Here is a new idea for them: The Austrian emperor's morning paper, which his imperial majesty cons daily, and consults over occasionally, has the smallest circulation in the world. In fact, its circulation is limited to the august Francis Joseph himself. This Chronicle-I believe that is the nameis the most curious publication imaginable. Its proprietor is the emperor, it is published for the emperor, and, so far as I can learn, it is only read by the emperor. It is, at any rate, issued for his sole benefit, aud the imperial news bureau brings it out at a cost of two hundred thousand gulden yearly. It contains, in a condensed form, all the articles in foreign papers which refer to Austria. Surely, this is true wisdom-I mean this desire of becoming acquainted with all that is publicly said or written about one's self, when that self is set in high place. Many a word which no courtier or subject would venture to speak direct, may thus find its way to the imperial ear.

HOME HAPPINESS.

Probably nineteen twentieths of the happiness you will ever have you will get at home. The independence that comes to a man when his work is over and he feels that he has run ont of the storm into the quiet harbor of home, where he can rest in peace and with his family, is something real. It does not make much difference whether you own your house or have one little room in that house, you can make that one little room a true home to you. You can people it with such moods, you can turn to it with such sweet fancies that it will be fairly luminous with their presence, and it will be to you the very perfection of a home. Against this home none of you should ever transgress. You should always treat each other with courtesy. It is often not so difficult to love a person as it is to be courteous to him. Courtesy is of more value and more royal grace than some people seem to think. If you will be but courteous to each other you will soon learn to love more wisely, profoundly, not to say lastingly, than you ever did before.

CULTIVATING DISEASE.

The internal organs do not want to be thought about. A man's stomach is healthy when he does not know he has one. When we are conscious of the existence of any internal organ, that organ is sick. The internal machinery was intended to do its work unconsciously. When we begin to think about our stomachs, digestion is arrested. John Hunter said he got gout by thinking about his great toe. A man who sits at the table wondering if baked potatoes will agree with him, and whether fruits and vegetables are a good combination, is in a fair way to have trouble with the simplest kind of food. Thinking about the internal organs gets them in a sort of stage fright and they are powerless .-Good Health.

KEEPING FLOWERS.

A new method of preserving natural flowers has been discovered by an English lady, whose process is well worth considering. The flower buds were cut just as they were about to open and the ends of the stems covered with sealing wax. Each was then wrapped separately in paper and laid away in a box. When they were wanted she clipped the stems just above the wax and immersed them in water, to which a little nitre had been added; and though the flowers had been gathered nearly a month before, on the morrow they opened with as much beauty and fragrance as if freshly plucked.

CURE FOR PNEUMONIA.

Take ten or twelve raw onions, chop fine and put in a large spider over a hot fire; then add about the same quantity of ryc mcal and vinegar enough to make a thick paste; let it simmer five or ten minutes. In the mcanwhile stir it thoroughly, then put it in a cotton bag large enough to cover the lungs; apply to the chest as hot as the patient can bear; when this gets

Part I.

New Hampshire.—(Hanover.) Bulletin No. The New Hampshire.

New Jersey.—(New Brunswick.) Bulletin No. The New Hampshire.

New Jersey.—(New Brunswick.) Bul

cool apply another; and thus continue by reheating the poultices, and in a few hours the patient will be out of danger. This recipe was given me several years ago by an old physician, who stated that it had never failed in a single instance to effect a cure of this too often fatal malady.

NOT SQUARE.

The Teuton is often a long time in learning American idioms. One who had been here for a year or more, and who could speak some English before his arrival, a very short and corpulent man, by the way, went to his grocer's and paid a bill which had been standing for several

"Now you are all square, Hans."

"I vas vat?"

"You are square, I said."

"I vas square?"

"Yes-you are all square now."

Hans was silent for a moment; then, with reddening face and flashing eyes, he brought his plump fist down upon the counter and said:

"See here, mine frent, I vil haf no more peezness mit you. I treat you like a shentleman; I pay my pill, und you make a shoke of me-you say I vas square, ven I know I vas round as a parrel. I dond like sush shokes. My peezness mit you vas done!"

Recent Lublications.

CATALOGUES RECEIVED.

Circular describing the Mapes Tobacco Manure, from the Mapes Formula and Peruvian Guano Co., New York.

Farm Annual. H. G. Faust & Co., Phil-

Catalogue of Northern Grown Plants, Bulbs and Seeds. L. L. May & Co., St. Paul, Minn. Catalogue of Seeds, Plants, etc. The Storrs

& Harrison Co., Painesville Ohio. Price List of Call's Nurseries. S. W. Call,

Perry, Lake Co., Ohio. Burpee's Farm Aunual. W. Atlee Burpee &

Co., Philadelphia, Pa. Catalogue of Small Fruit Plants. J. M.

Edwards & Son, Ft. Atchison, Wis. Catalogue of Steam Engines and Steel Boilers, both horizontal aud vertical. James

Leffel & Co., Springfield, Ohio. Catalogue of Seeds for sale by Trumbnll,

Strean & Allen Seed Co., Kansas City, Mo. Special circular of New Irrigating Pumps, Horse Powers and Appliances. The Goulds

Mfg. Co., Seueca Falls, N. Y. Catalogue of Champion Hay Presses.

Famous Mfg. Co., Cnicago, Ills. Autumu Bulb Catalogue of Peter Henderson

& Co., New York.

Catalogue of Northern Grown Tested Seeds. Northrup, Braslan & Goodwin Co., Minneapolis, Minn.

Vegetable, Flower and Field Seeds. Frank Ford & Son, Ravenna, Ohio.

Descriptive catalogue of Seeds. Jas. M. Thorburn & Co., 15 John St., New York.

EXPERIMENT STATION BULLETINS.

Sent free, on application, to residents of the state in which the station is located. Address Agricultural Experiment Station.

CANADA .- (Agricultural College, Guelph.) Bulletin No. 55, December 2, 1890. Experiments in swine feeding with grain and meal. Bulletin No. 56, December 9, 1890. Smut, its habits and remedies. Bulletin No. 57, December 16, 1890. Sugar beets.

CANADA.-(Central Experiment Farm, Ottawa.) Dairy Bulletins. (No. 1) Milk for cheese factories. (No. 2) Notes for cheese makers for May. (No. 3) Butter making. (No. 4) Fodder-corn and the silo.

FLORIDA.-(Lake City.) Bulletin No. 11, October, 1890. Experiments in corn and Irish potatoes and analysis of grasses.

NEW YORK .- (Cornell Station, Ithaca.) Bulletin No. 23, December, 1890. Insects injurious to fruits.

OH10.—(Columbus.) Bulletin No. 9. Vol. III. Seed-bearing and non seed-bearing asparagus. The use of rubber bands In bunching asparagus. Transplanting onions.

TENNESSEE.—(Knoxville.) Bulletin No. 51, Vol. III. Frult trees at the experiment station. West Virginia.—(Morgantown.) Bulletin No. 8, June, 1890. Summary of meteorological observations and reports of correspondents on conditions of agriculture, etc. Bulletin No. 9, July, 1890. Additional report upou wheat distribution in 1890. Meteorological report for July. Reports of crop correspondents for July. August, 1890. Meteorological report for August. Reports of crop correspondents for August.

ILLINOIS.—(Champalgn.) Bulletin No. 12, November, 1890. Field experiments with oats, 1890. Third annual report, 1889-90.

KANSAS.—(Manhattan.) Bulletin No. 14, December, 1890. Winter protection of peach trees and notes on grapes.

Maine.—(Orono.) Annual report for 1890. Part I. TENNESSEE .- (Knoxville.) Bulletin No. 51,

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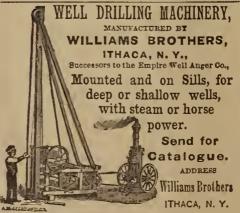




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God never would send you the darkness If he felt you could bear the light, But you would not cling to his guiding hand If the way were always bright; And you would not care to walk by faith, Could you always walk by sight.

'Tis true he has many an anguish For your sorrowful heart to bear. And many a cruel thorn-crown For your tired head to wear; He knows how few would reach heaven at all If pain did not guide them there.

So he sends you the blinding darkness, And the furnace of seven-fold heat; 'Tis the only way, believe me, To keep you close to his feet For 'tls aiways so easy to wander When our lives are glad and sweet.

Then nestle your hand in your father's. And slng, if you can as you go: Your song may cheer some one behind you. Whose courage is slnking low, And, well, if your iips do gulver-God will love you better so.

-Exchange.

VERMONT has a Flsh and Game League.

THERE is nobody or nothing in this world that is so often crossed in love as the front-

"HELLO!" said the liose to the lawn, "don't you and the mower speak?" "No, not since he cut me last year."

TEACHER-"Don't you know it's wrong to fight?"

Small boy-"Yes'm, when I'm gettin'llcked." TEACHER (at Sunday-school)-"Betty, what have we to do first before we can expect the forgiveness of our sins?"

Betty-"We have to sin first."

LADIES who are interested in making rugs, or any kind of fancy work, should read advertisement of E. Ross & Co., on page 167 of this

LIFE is made up, not of great sacrifices or duties, but of little thlngs, in which smiles and kindnesses and small obligations, given habitually, are what win and preserve the heart and secure comfort.

"YER look bad, Jim. Been under the weath. "Sorter. To-day's the first time I've been out er doors in three months." "What was the matter with yer?" "Nothin'; but the Judge wouldn't believe it."-Life.

Send two-cent stamp for Dr. H. James' receipt of imported hempfor the positive and permanent cure of Cousumption and Bronchitis. Craddock & Co., I032 Race St., Philadeiphia, Pa.

A LITTLE boy who had eaten "not wisely but too well" of Christmas dinner, subsequently said there must be a whole window in his stomach, for it was impossible he should suffer so from one pane.

LITTLE Mabel described graphically her sensation, striking a dimpled elbow on the bed carving. "Oh, my!" she sighed, "mamma, I've struck my arm just where it makes stars in my fingers."-Babyhood.

The advertisement of W. Atlee Burpee & Co., of Philadelphia, Pa., in this issue, was awarded the first prize out of several hundred sent in competition in a contest conducted in Printers' Ink It is worthy of attention as an attractive advertisement of excellent seeds and plants.

SENATOR EDMUNDS is after the clgarette boys of the District of Columbia. He says twentynine states have legislatured ou this line, aud the exclusive Jurisdiction of the congress in the district must now be put in saving operation:

BEECHAM'S PILLS cure Bllious and Nervous Ills.

TRUE, unchangeable love remodels our characters, removes the weed of selfishness, making us live for something better than ourmakes us see new beauties in things around us, and by its sanctifying influence purifies our lives.

"Cheap Lands and Homes in Kentucky, Tennessee, Georgia, Alabama, Mississippi and Louisiana" is the Title of a Pamphlet issued by D. G. Edwards, Cincinnati, Ohlo, General Passenger and Ticket Agent Queen & Crescent Route, containing correct County map of these States. Mailed free ou application, to any address.

GEN. BOOTH, of the Salvation Army, says he will do what he can to bring the right kind of people of both sexes to know one another. This is a part of his "Darkest England" scheme, aud seems to be a huge matrimonial enter-

STOP THAT CONSTANT HACKING, hyremoving the irritation in the throat, and subduing any inflammation that may exist there, by using Dr. D. Jayne's Expectorant, a long established remedy for Throat and Lung troubles, of fifty

IF Mrs. William Astor read the begging letters that are addressed to her she would have no time for anything else, and if she responded to the demands on her purse she would be as dependent as the most importunate in less than a year,

"Is it a crime to be a woman?" sald the pretty agitator. "If it is, it's a very capital crime," replied a gallant auditor.

NEVER be afraid to own the truth, let the consequences be what they may. Ever keep truth for your motto and guide and you will surely be the gainer in the end.

"DID you remember to be a good girl at aunty's, Mamle?"

"I don't know. I had so much fun I dldn't think of paying any attention to myself."

·UNREASONABLE—A hardened bachelor thus replied to the criticisms of some friends who upbraided him for not taking a wife: "You certainly could not expect me to marry a woman who'd be foolish enough to have me!"

Many expiosions in flouring mills are sald to have been caused by electricity generated by belts. Evcu ordinary belts are found to generate sufficiently strong currents to perform the common experiments for which electrical machines are used.

THE Empress of Germany, has military tastes, as well as her husband. At the late grand review on Templehoffield, she was In the saddle for two hours, riding superbly and leadher own regiment of cuirassiers past the emperor. Her uniform as colonel was a habit of white cloth, embroidered on shoulders and collar with the red and silver colors of the regiment, and a three-cornered white felt hat, with many ostrich feathers, in which she looked remarkably pretty.

MONSIEUR MARCEL is a Paris coiffeur, celebrated for his skill in waving the hair so that the undulations remain for nearly a month. It is said that when Jane Hading was in America, she offered him \$2,000 to come out during her engagement. But he declined, with good reason, as he makes about \$160 a day at home. He did, however, come to England for \$10,000 in answer to a prayer from some dishevelled dame. One day several ladies were waiting their turn to be "waved" at \$2 a head, when the attendant entered the room and said that a lady offered \$4 for the first turn. "Oh," said Madame Baretta, who was one of the patients, "I cau't wait; I offer \$6." "\$8," said a little actress from the varieties. Just then an American woman strolled in, raised her lorgnon to her eyes, looked disdainfully around. "\$30," she murmured. Marcel, who had been quietly "waving" during this scene, began at once on the newcomer's head. The others

WHILE in New England last December, one of our representatives was suffering from a very severe cold, which his doctor had been treating as bronchitis, and happening to be in the office of the Erated Oxygen Compound Co., of Nashua, N. H., he was induced to try their treatment and was greatly relieved by it.

They send, free, a book of information to all who apply for it and some of our readers may find it beneficial in cases of colds, throat trouble and other ailments.

RECENT investigations in France go to prove that the horse has no ear for music, and only a very slight understauding of time and military signals. Several circus men confessed to the investigators that they had never seen a horse with musical instincts. The popular delusion that a trained horse occasionally waltzes in time with music, they said, was unsupported by experience. The music was always played to suit the step of the horse, which was regulated by signs from the trainer. Most war horses were found to pay little attention to a signal for a charge, save when aroused by the significant movements of the rider. A troop of riderless cavairy horses were unmoved by martial trumpet calls. Altogether, the investigations concerning horses on the field of hattle went to prove that the traditionally intelligent war horse could not make a correct movement in a fight, save under its rider's constant guidance.

THE INDIAN TROUBLES.

Those of our readers who have copies of our Peerless Atlas have been enabled to locate the principal points of interest, by our maps of the states of South Dakota and Nebraska. The plates for these maps were prepared before any indications of trouble with the Indlans; yet they have been of great interest and value to those who wished to locate the places named in the dispatches from the "front." The Atlas is offered on such liberal terms that everybody can secure a copy. It gives the population of each state, by counties, according to the census of 1890. See offer on another page.

BIRTHDAYS-Let the birthday of cach member of the family be always remembered when it comes. Let there be something out of the ordinary routine in the arrangement of the table-pies, fashioned as Jennie likes them best; one of Frank's favorite pium puddings; or Julia's special liking, a loaf of ginger cake or a wonderful pudding, such as only mamma can make. There must be presents. Sometimes people may think that they canuot be afforded; but reflect. The little one needs shoes, dresses, aprons and many other articles. Purchase one or more for the birthday; it will seem just as much a present to her as though she were not obliged to have it. Next come story-books, a knitted wrap and a pair of skates (should the birthday occur in winter), a pretty little school satchel, etc. Encourage the little ones to give to each other, and remember father's and mother's birthday, too,

THE "pinhoie camera" is a novelty in photography. It is a little tin box, two inches in diameter and three quarters of an Inch deep. Simple as the construction is, with paper instead of glass for the negative, and a pin-hole in the cover for the light to enter, some interesting work may be done with the

A ROMAN doctor has discovered in many of the skulls in different Etruscau tombs, as well as in those deposited in the various museums, interesting specimens of ancient dentistry work and artificial teeth. The skulls examined date as far back as six centuries before Christ, which proves that dentistry is not a

TOMMY (at the breakfast table)-"Madge, I think Mr. Cutely Is a 'jim dandy.' "

Madge—"Why so?"

Tommy-"He gave me ten cents not to tell what happened in the hall last night, an' I sin't goin' to "

And just theu Madge thought she heard the kettie ln the kitchen boiling over and hurried out to investigate.-New York Herald.

HOW OLD THE FARTH IS

M. A. d'Assier, examining the questionem vexatam of the earth's age, arrives at the conclusion that it is about half a million of years for the nebular and stellar period, and about twenty-five millions (of which fifteen are past) for the period of organic beings. When about twenty-six million years old, our mother earth, cold and lifeless on account of the sun's disappearance, shall be somewhat shaken in consequence of the moon rushing on her, and some time later will, in turn, rush in the sun. This affectionate meeting, if M. d'Assier is well informed, will cause a momentary outbreak of heat and light, and thus the earth will have done with its troubles.

MAN'S POWER OF IMAGINATION.

The power of imagination is supposed to be stronger in women than in men; but this was not shown in a recent hospital experiment. Dr. Durand, wishing to test the practical effect of mind disease, gave one hundred patients a dose of sweetened water. Fifteen minutes after, entering apparently in great excitement, he aunounced that he had, by mistake. given a powerful emetle, and that preparations must be made accordingly. Eighty out of the one hundred patients became thoroughly ill and exhibited the usual result of an emetic; twenty were unaffected. The curious part of it is that, with very few exceptions, the eighty "emeticised" subjects were men, while the strong-minded few, who were not to be caught chaff, were women. - New Orleans

HOW VARIOUS NATIONS SLEEP.

In the tropics, men sleep in hammocks or upon mats of grass. The East Indian unroils his light, portable charpoy, or mattress, which in the morning is again rolled together and carried away by him. The Japanese iie upon matting, with a stiff, uncomfortable, wooden neck rest. The Chinese use low hedsteads, often elaborately carved, and supporting only mats or coverlids. A peculiarity of the German bed is its shortness; besides that, it frequently consists, in part, of a large down pillow or upper mattress, which spreads over the person, and usually answers the purpose of all the other ordinary bed-clothing combined. In England, the old, four-posted bedstead is still the pride of the nation; but the iron or brass bedstead is fast becoming universal. The English beds are the largest beds in the world. The ancient Greeks and Romans had their beds supported on frames, but not flat like ours. The Egyptians had a couch of a peculiar shape-more like an oldfashioned easy chair with hollow back and seat.—Boston Budget.

CONSUMPTION CURED.

An old physician, retired from practice, had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering, I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Seut by mail, by addressing, with stamp, naming this paper, W. A. Noyes, 820 Powers' Block, Rochester, N. Y.

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persons suffering with RHEUMATISM in any form, Neuralgia or Lumbago. I will, without charge, direct those afflicted to a sure and permaneut cure. I have nothing to sell but give information what to use that cured myself and friends after all other means had failed. Address, F. W. Parkhurst, Fraternity and Fine Art Publisher, Lock Box 1501, Boston, Mass.

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THE NATIONAL MFG. & IMPORTING CO. (9) and 193 Clark Street, Chicago, Illinola Mention this paper when you write,

Smiles.

COMPENSATION.

Sweetheart the hour is late, I learned to-uight my fate-You me rejected! Though I had faith and trust, Your gentle nay was just What I'd expected.

What though I dared admire? You, in your brave attire, Belle of the revel. Ruled it o'er hearts as good-Could not, e'en if you would. Stoop to my level.

My funds are low, I swear; I'm in a quagmire, where Creditors have shoved me. Sweetheart, bethink what plight I'd have been in to-night If you had loved me.

— Chicago News.

A FINANCIAL DISCUSSION. LD MAN MONEYBAGS (facetiously)-"Come, my dear, aren't you going to advise me? Here's a man that wants me to lend him \$10,000 on his Atchison stock. Now what do you advise me to do?

Young Wife-"Why, you know that I don't know anything about money.'

Old Man Moneybags-"Don't know anything about money! That's pretty good, when you made as much in one day as I have made in all my life."

Young Wife-"Why, when was that?' Old Man Moneybags (uproarionsly)-"When you married me."

Young Wife-"Yes, but all my frieuds have told me that I couldn't have made a worse bargain."-Boston Courier.

BETTER OFF THAN HE KNEW.

A man who was eating a large, raw carrot stopped a woman on Duffield street the day after New Year's and said:

"Madam, could you give me ten cents to buy food with?

"Why, you seem to have plenty," she answered.

"Raw carrot-see!" he said as he extended it. "Yes, but don't you know that raw carrot contains ninety-three per cent of clear nutriment against only thirty-three in mince pie or plum pudding? You ought to be thankful, sir-very thankful."-Detroit Free Press.

FOR SHAME.

"Talk about wives," said Farmer Hawbuck; "I've got one in a million. Why, she gets up in the mornin', milks seventeen cows and gets breakfast for twenty hard-workin' men before 6 o'clock, by George!"

"She must be a very robust woman, Hawbuck," remarked one of his hearers.

"On the contrary," put in the farmer, "she is pale and delikit like. Jimminey! Ef that woman was strong, I dunno what she couldn't do!"-Harper's Weekly.

IT WAS TIME.

He was sitting in the parlor with her when the rooster crowed in the yard, and leaning over he said:

"Chauticleer!"

"I wish to gracious you would," she said. "I'm as sleepy as I can be."

He took his hat and left, and hasn't been back since.

A GRATIFYING INDORSEMENT.

"John, Charles, William," cried the boys' mother, "where are those peaches I left here?"

"In our midst," returned the boys; and when the doctor called that night the mother knew that her little darlings had spoken truthfully, as well as with a grammatical accuracy that is not universal.

THE LOGIC OF EVENTS.

Customer-"Not long ago I came in here and bought a porous plaster to help me get rid of the lumbago."

Clerk-"Yes, sir, What can I do for you 110W?"

Customer-"I want something to help me get rid of the porous plaster."

ALARMING.

Fred-"What! Fight a duel on account of a woman? No, sir! If I caught a man flirting with my wife I'd invite him to come over for a day's shooting-just as I've invited you-and then, if an accident were to occur-

John-"Heavens! I hope you don't suspect me?"-Journal Amusant.

A TROUBLE EASILY CURED.

Distressed young mother, travelling with weeping lnfant-"Dear, dear; I don't know what to do with this baby."

Kind and thoughtful bachelor in next seat-"Madame, shall I open the window for you?" -Boston Courier.

THE EASTERN IDEA.

Western woman-"I don't care what other people may say, Man-with-a-hole-in-his-stocking is a good Indian."

Eastern frlend-"You don't say! When did

A WELL POSTED SCHOOL-GIRL.

A high-school girl, class A, being told by her teacher to parse the sentence, "He kissed me," consented reluctantly, because opposed to speaking of private affairs in public. "He," she commenced, with nnuecessary emphasis and a fond lingering over the word that brought crimson to her cheeks, "is a pronoun; third person, singular number, masculine gender; a gentleman pretty well fixed; universally considered a good catch. Kissed is a verb, transitive-too much so; regular-every evening; indicative of affection; first and third person, plural number and governed by circumstances. Me-oh, everybody knows me," and down she went .- Grand Ledge Independent.

ENTIRELY INNOCENT.

Sunday-school superintendent-"Who led the children of Israel into Canaan? Will one of the smaller boys answer?"

Snperintendent (somewhat steruly)-"Can no one tell? Little boy on that seat next to the isle, who led the children of Israel into Canaan?"

Little boy (badly frightened)-"It wasn't me. I-I jist moved yere last week f'm Mizzoury." -Chicago Tribune.

A CLINCHER.

A young man home from college, wishing to inspire his little sister with awe for his learn. ing, pointed to a star, and said: "Sis, do you see that bright, little luminary?

It's bigger than this whole world." "No 'tain't," said Sis.

"Yes, it is," declared the young collegian. "Then why don't it keep off the rain?" was

the triumphant rejoinder.—Spare Moments.

IT RAN IN THE FAMILY.

Philanthropist (to newsboy)-"Why do you go about in the cold wind, my boy? You'll catcb your death!"

Boy-"Can't help it. Have to earn money to support the family. Mother's paralyzed." Philauthropist-"Doesn't your father earn

Boy-"Nope; he's paralyzed, too, most of the time."

UNDER COVER OF LAW.

A noted crook one day said to a Cleveland

"If I were to start over again, I would be a lawyer, instead of an honest crook. There is more stealing, lying, cheating and robbing under cover of the law than outside of it, and I have been robbed by lawyers as often as I have robbed other men."-Detroit Free Press.

A SERIES OF EXPLOSIONS.

Mrs. Fatwood-"I cannot allow you to light the fire with kerosene."

Biddy-"Snre, an' I always used it in my last

Mrs. Fatwood-"And did you never get blown up?"

Biddy-"Yis, mum; most ivery day-by the missus, mum.'

THE DIFFERENCE.

Gazzam-"What is the difference between a

poet and a plumber?" Maddox-"The poet is generally poor."

"That isn't the answer."

"Let's have it, theu."

"The poet pipes the lay, but the plumber lays the pipes."

GREAT ADVANTAGES.

Among the farms advertised in Australia is one "which is situated only 17 miles from a postoffice, 128 miles from a railroad; and one who has means could, no doubt, build a church and a school-house on his own land, and thus add to the value of the property."-Detroit Free Press.

LITTLE BITS.

Some men are born great, some achieve greatness and some become hotel clerks.

The Indian war dance is a good deal like the ballet variety. It takes men to the front tier. -Yonkers Statesman.

A faithful friend: "What sort of a fellow is be?" "He's a friend who would be willing to share your last dollar with you."-Life.

Teacher-"You say there are six senses? Why, I have only five." Scholar-"I know it, sir. The sixth one is common-sense."-Detroit Free Press

A problem: Mathematicians figure that a man 60 years old has spent three years buttoning his collar. How much time has been consumed by a woman of 45 in putting her hat on straight?-Life.

"My object in calling this evening," he began, with a nervous trembling of his chin, "was to ask you, Katic-I may call you Katie, may I not?" "Certainly, Mr. Longripc," said the sweet, young girl, "all of papa's elderly friends call me Katie." And he said nothing further about his object in calling."-Spare Moments.



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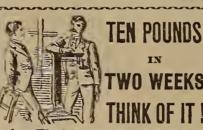
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-Housekeeper's Weekly.

THE HEALTH OF OUR WOMEN.

No woman admits that tight lacing injures her; it is some other woman. The worship of fashion has become so intense, and the appearance of a rival's shape arouses such a spirit of emulation, that our women continue to squeeze themselves in steel bands to such a degree that the functions of the body cannot go on normally; and the long train of ills tightlacers know so well, but the warnings of which they will not heed, follows, ending in slow disease and final wreck. Experience seems to teach the sufferers but little, and the mothers are as ignorant as the daughters. Health is sacrificed for a spider waist. Scientific doctors have been preaching against these evils time out of mind, but the headway against them is slow. The academies and colleges for women, however, are getting to be more alive to the importance of the pupil's health. The better class of institutions are equipped with gymnasiums and provided with swimming pools and other means for developing the body and preventing the health from breaking down. Tennis and other out-door games are growing in favor. For a girl nothing can take the place of exercise in the open air; not merely a walk of a few blocks, but a good "constitutional" at a swinging gait, and that, too, without much reference to the weather. The girls of to-day will in a few years be mothers. The law of heredity is inexorable. Strong, healthy men and finely-developed, handsome women are not born of sickly, weak parents, whose blood, perhaps, suffers from the poison that can be traced back generations. Health is beauty, said the old Greeks who lived in the open air, and beauty is health. -Baltimore American.

BEARDING THE LION.

There are railway employees and there are magnates in embryo. Both answer questions, but the difference between their modes of replying is greater than that between a Prohibitionist at home and the same individual abroad. The first are civil for civility's sweet sake, and the last are uncivil for a variety of reasons, chiefly because of an overweening sense of selfimportance. One of the latter kind has some sort of situation in the high-toned line at the Grand Central Station. He has an unbroken record of insolence that staggers belief and those who question him; but he received a reply the other evening that rather clipped his corners. A gentleman went up to him and politely made a number of inquiries regarding the departure of trains, to each of which he received churlishly short replies. At last Mr. Futurity Depew broke out with this acteristic specimen of Bowery humor: "Say, do ye expect me to tell all I know fer nothin'?"

"By no means," was his questioner's smiling reply, as he reached into his pocket. "Here's a quarter; just tell me all you know and give me the change."

The crowd laughed derisively and the gong came in on the chorus.

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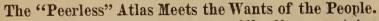
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Bacon and greens
Beantiful bells
Beauf la Bessie
Be gone dull care
Bell Brandon
Beantiful Bessie
Be gone dull care
Boll Brandon
Concealment
Concealment
Darby the blast
Dearst Mae
Dearst M Broken yoke
Broken yoke
Brose and butter
Bruce's address
Bryan O'Lynn
Buy a broom
Caller Herrin
Castilian maid

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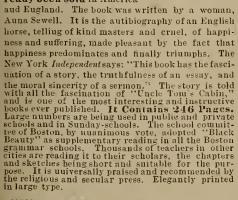
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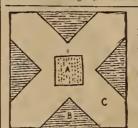
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Tar is a noteworthy fact that while all the old reliable farm journals are in hearty sympathy with the farmers' movement, vory few of them advocate the two schemes of government loans of paper money on lands and farm products. A number of them are warning the farmers that the movement will be wrecked if these schemes are not abandoned. Last month the American Agriculturist, the best monthly farm journal published, contained an economic analysis of the proposed sub-treasury scheme, by President Andrews, of Brown University. The article is fair, candid and concise, and clearly exposes the fallacies and errors in tho fundamental principle of the agricultural sub-treasury plan.

The first point that the writer makes is that it is a mistake to think that harvest brings to the nation a sudden accession of exchangeable wealth, calling for expansion in the circulating medium. The nation's wealth grows at a nearly constant rate throughout the year. But for the concurrent origination of other wealth, surplus agricultural produce could not be marketed at all, however much money might be in circulation, and therefore would not constitute wealth. Farmers practically exchange their crops for supplies they need. These must be in existcuce before the exchange can be made, and they come into existence gradually, just as crops are grown. The circulating medium should be expanded gradually, not suddenly, as the warehouse plan provides. He recognizes the peculiar need of money in agricultural localities after harvest time, but the remedy for this, he says, is the extended use of banking facilities in the way of deposits and checks.

The sub-treasury scheme would only aggravate the evil. It is artfully framed to flace the farmer by forcing him to sell at low prices and buy at high. The effect of a the farmers depositing grain about the samo season each year, will be to greaty increase the volume of currency in circulation after they have deposited their grain, which will increase the price of everything they have to buy after they have gotten the money to buy with. The votame of money will be doubled just after the farmer has nothing to sell, and just when he wants to buy. If it doubles the volume of money it also doubles the price of what he has to buy. Prices might not rise exactly in proportion to the growth of the currency, but they would rise, and rise just at the wrong time for

ie farmer. The scheme would effect a ruinous per-

manent inflation of the currency. Against warehoused produce, eighty per cent of its value is to be issued in greenbacks, besides which the whole value is to be made a negotiable thing through the instrumentality of warehouse receipts. The volume of currency would be greatly increased. This new supply would be indefinitely out of proportion to the need after harvest, and at the end of the agricultural year, the month before harvest, while it would see reduction enough in the currency to greatly reduce prices, would not witness the calling iu of all the greenbacks and crop certificates issued against crops since the preceding harvest. Produce could and would be re-deposited whenever profitable. Depositors borrowing mouey at one per cent would turn brokers and loau it to others at three or four per cent. They would be a special class favored by the government.

If the scheme works well with farm products it is to be extended in other liucs. Should the device for increasing money take this wide sweep, the owners of warchoused goods would be in a condition to become the purveyors of loanable fuuds to the entire world. Culy one thing would prevent this: the greenback would not long continue at par with gold or even silver. The scheme would from the first be distrusted, and each greenback pushed to some sub-treasury in demand for coin. Gold and silver would leave the circulation, and we should be thrown as hopelessly as Russia or Austria upon a paper monetary basis. Everyone knows what the inevitable tendency is when prices have lost relation to a coin foundation. Money having depreciated and raised values, ceases to be self-regulating in volume. Demand, losing all relation to amount of true money and permanent property, inflates prices, which in turn stimulates exchange, creating new demand for circulating medium and indefinitely multiplying all forms of indebtedness, until at length the discreet decline to give further credit, and a crash comes. In illustration is given Law's bank in France that issued paper money regardless of security, and the issue of assignats by the French revolutionary government, two schemes that ended in financial ruin.

Let one such financial hurricane sweep over the land and a hundred-fold more mischief would be done than enough to offset whatever slight advantage might come at first from the operation of the warehouse idea, and the evil would fall far the most heavily on the wage-workers and small property holders. This measure of finance might work smoothly for a short period, but in the end would bring disasters to the farming population.

E receive a great many letters both for and against both the subtreasury and land loan schemes. The sub-treasury seems in most favor with the cotton farmers of the South, but they are not unanimous. The following from a Georgia subscriber is a fair sample of numerous letters: "I am an Alliance man, but not wedded to the sub-treasury scheme; in fact, I am opposed to it. I want good money in mine. If the farmers of the South would quit buying on credit and issuing time drafts, and quit raising so much cotton and go to producing more corn, bacon, flour, etc., they would not need money so badly as they

do now at times." This is doubtless true. Many southern farmers are in financial bondage to their cotton factors from one year's end to the other, who could gain their independence by diversifying their crops and producing things at home which they now buy from other sections of the country.

An Illinois subscriber writes: "In the January 15th issue you had a short editorial on the sub-treasury scheme that pleased me and my neighbor readers of FARM AND FIRESIDE. We would like to have your opinion of the effect low interest would have on the poorer class of farmers. Would the wealthy buy up all the land they could and get their interest in rents?" In reply we would say, briefly, that if the rate of interest were lowered so that every borrower could take advantage of the reduction, it would be a great benefit to the farmers and everyone else struggling under debt. But to lower the rate of interest to one favored class only would not benefit those who are in most need of it. Under a scheme of government loans ou land at one or two per cent, those who have the most land in their possession are in a position to get the most benefit out of the scheme. They would be a highly favored class, and would go into the profitable business of loaning money to their less fortunate neighbors who do not possess land. Such a scheme would result in a scramble among wealthy speculators to obtain possession of land, and would temporarily inflate land prices. And rents would advance, as you suggest.

Again, how can the government loan money at one per cent when it pays three per cent, at least, for the money it borrows, without making up the difference by taxing the people or without going into bankruptcy? This government land loan scheme, if adopted, would be class legislation of the most pernicious sort.

or silver coin is a failure," is a red rag to the fiat money bull. The statement brought us a number of letters on the money question, from the believers in government printing press money. They read like the revival of the literature of the greenback craze, which afflicted the country about seventeen years ago.

We do not believe in an irredeemable paper currency. We do believe in honest money. We believe in gold and silver coin, equal in value with each other, and a paper currency based on them. We do not believe in a debased coin or depreciated paper currency. We commend our correspondents to the study of the following from the last speech of Secretary Windom:

As poison in the blood permeates arteries, veins, nerves, brain and heart, and speedily brings paralysis or death, so does a debased or fluctuating currency permeate all the arteries of trade, paralyze all kinds of business, and bring disaster to all classes of people. It is as impossible for commerce to flourlsh with such au instrument as It is for the human body to grow strong and vigorous with a deadly polson lurking in the blood. Such a currency is bad enough in domestic trade, but it is absolutely fatal to the prosperity of foreign commerce. Free and unlimited coinage of silver by the United States, while the other great nations pursue an opposite policy, would invite all the owners of that metal throughout the world to exchange 3711/4 grains of pure silver, worth about eighty-three cents, for 25.22 grains of pure gold, worth everywhere one hundred cents. Nearly all the nations of Europe are

anxious to exchange their silver for gold, and they would at once accept so tempting an offer. The mint statistics of the treasury department show that the stock of full legal-tender silver in Europe amounts to \$1,101,400,000, and that of this amount the banks of France, Germany, Austria, Hungary, the Netherlands and Belgium hold \$428,866,665. A large part of these vast stocks of silver would be ready for transfer to us at once, and the swiftest steamers would be employed to deliver it to the treasury, in order that with the proceeds the owner's might buy gold exchange on Europe before our stock of gold should be exhausted.

republic of Brazil marks an era in our commercial history. It opens up for our surplus agricultural and manufactured products the most promising market in South America. Other treaties will follow until reciprocal trade relations are established between the United States and all other countries on the American continent. The section of the McKinley tariff law under which reciprocity treaties are made reads as follows:

That with a view to secure reciprocal trade with countries producing the following articles, and for this purpose, on and after the first day of January, 1892, whenever and so often as the president shall be satisfied that the government of any country producing and exporting sugars, molasses, coffee, tea and hides, raw and uncured, or any of such articles, imposes dutles or other exceptions upon the agricultural or other products of the United States, which in view of the free introduction of such sugar, molasses, coffee, tea and hides into the United States he may deem to be reciprocally unequal and unreasonable, he shall have the power, and it shall be his duty, to suspend, by proclamation to that effect, the provisions of this act relating to the free introduction of such sugar, molasses, coffee, tea and hides, the production of such country, for such time as he shall deem just; and in such case and during such suspension duties shall be levied, collected and paid upon sugar, molasses, coffee, tea and hides, the product of or exported from such designated country.

In treaties made under this act the principle of reciprocity will be applied only on the lines of a protective tariff. The principle will apply either to protection or free trade; so it may be considered to have become the established policy of the government, whether in the future we have protection or free trade. Indeed, it is only by the principle of reciprocity that this country could ever secure real free trade if it wanted it. For if we were to abolish our whole tariff system, and countries with which we trade retain theirs, our so-called free trade would be a very one-sided affair at best.

Reciprocity treaties can secure real free trade by compelling other countries to abolish their customs duties when we abolish ours. The importance of this will be understood when we come to consider the fact that out of about 468,000,000 of civilized people, only 38,000,000, the people of Great Britain, are without protective tariffs. And even England has very adroitly arranged her revenue tariffs to protect berself.

AIRYMEN, are you thinking about building and filling a silo next season? If not, why not? Are you considering the subject of winter dairying? Now is the time to plan and prepare for it. It is more profitable. There is less competition. The products bring higher prices. With proper grain rations, and sweet clover hay or bright corn fodder, or, better still, sweet ensilage, you can produce a pound of butter cheaper in mid-winter than from grass in June.

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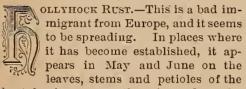
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Our Farm.

SUGGESTIONS FROM THE EXPERIMENT STATIONS.

BY JOSEPH (T. GREINER.)



host, having apparently wintered on the radical or root leaves. It shows its presence by spots, which are yellow at first, but soon become wart-like and brown, or even gray. These spots and the mycelium (or spore roots) withir the leaf may so increase as to cause the leaf to wither, dry up and appear as if scorebed by fire, long before the appearance of the flowers. In many cases no flowers ever appear. Professor W. R. Dudley, of Cornell University, sounds a note of warning in bulletin XXV of the Cornell University Experiment Station. The old remedy (published in 1874 in Gardener's Chronicle, namely: Permanganate of potash, saturated solution, two tablespoonfuls; water, one quart; apply to the spots and all diseased parts with a sponge and not a syringe or sprayer) is easily obtained and cheap, and the only one as yet suggested. Like most other old remedies for fungus diseases, it may have to yield to the newer copper treatment.

CORN TASSEL AND GRAIN .- The same bulletin reports a most interesting experiment with corn, and one having a great practical bearing. The question to be settled was whether the removal of the tassel as soon as it can be seen will increase the yield of the grain. Consequently, the tassels were removed from every alternate row, with the effect of increasing the uumber of good ears and the weight of merchautable corn on the stalks tbus treated, a little more than fifty per cent. This is an enormous gaiu and well worth consideration by every corn grower. The question is only to what extent can we remove the tassels, for there must be a certain proportion left to furnish the required pollen. If the gain is always as large as indicated in this experiment, it certainly must pay the grower to remove all that it is safe to do. Secondary, but of not less interest to me, is the question whether this gain is due to prevented pollen production. The indications are that "pollen production is an exhaustive process," which I have heretofore been unwilling to admit.

PLANTING CABBAGES .- Prof. Bailey, in the same bulletin, tells us that his experiments show the doubtful utility of deep transplanting in case of cabbage plants. I think it depends very much on the plants are spindling and weak and the which they have appropriated from the season dry, deep setting has its great ad- atmosphere.

vantages. This is especially the case on deep, loose, sandy loam or sandy soil.

Do Vines Mix.-My personal experience in growing cucumbers, melons and other cucurbits, is that the danger from mixing is not near as great as generally supposed. I have never seen or grown a hybrid between melon or cucumber, between watermelon and muskmelon, or between melon and squash or pumpkin, and have ridiculed the idea that pumpkins, planted in a watermelon field, could exert any influence whatever upon size or quality of the melons. Prof. Bailey's experiments with cucurbits furnish rather substantial evidence in the same direction. A large number of hand pollenations were made at the experiment station, and in no case was any immediate influence of the pollen obtained, except such as was due to imperfect development, caused by insufficient or impotent pollen. It appeared that pollen taken from cucumbers was not potent on melons. Ninety-seven muskmelon flowers of various varieties were pollenated by cucumber pollen of many kinds. No fruits developed. Twenty-five cucumber flowers were pollenated by muskmelon pollen. Only one fruit developed, and that was seedless. This shows that melons and cucumbers do not mix, and that the influence of the one upon the other is fictitious. It was also found that only the group of squashes. including the scallops, common crooknecks, cocoanut, Bergen and others belonging to the same species (Cucurbita peps), will cross readily with the ordinary field pumpkin aud each other, while the other group, iucluding the Hubbard, Marblehead, turbaus and others of the species Cucurbita maxima, does not hybridize with the field pumpkin or any member of that species. Here we have the proof of the pudding. I have for years preached that it is entirely safe to plant all sorts of vines in close proximity, if grown for consumption, not for seed, and that even the mixing of varieties of the same species of cucumbers in the seed is not so common as ordinarily supposed. These are important facts, interesting both to the gardener and the seed grower.

Prof. Bailey brings out still another fact, one of immense importance to origiuators of varieties. In squashes and pumpkins the pollen is impotent upon pistils on the same plant, so that true inbreeding does not occur. In some cases the fruits develop and mature, but they invariably bear poor seed.

RECLAIMING GALLED OR WASHED LANDS.-The agriculturist of the Tennessee Agricultural Experiment Station, Mr. Paul F. Kefauver, treats this subject in Bulletin Vol. III, No. 4. The most profitable disposition which can be made of these galled lands, he says, is to get them down in a good, permanent sod as soon as possible, and keep them in sod. The process by which this is done consists of the following steps: Plowing, subsoiling, working manure into the surface, seeding with various grasses and clovers and mulching in May. The advantages of a mulch, which have long been generally recognized, are the following: It preserves moisture in the soil for summer use, maintains a good capillary connection up to the very surface, prevents breaking and washing, protects it as a blanket in winter, adds vegetable matter to the soil by its decay and generally livens up the soil. It is also an old observation that soil becomes richer in nitrogeu when covered by mulch. It is only recently, however, that it is suspected to be due to the agency of soil microbes or bacteria, which are present in the decaying vegetable matter used as mulch, and which feed on the free nitrogen of the air and make it available for clover, peas and similar plants. When we spread a mulch to decay ou the land, especially such as damaged ensilage and clover-halm, which contains great numbers of these bacteria, we inoculate the soil with them. Here they come in contact with the roots of the leguminous plants, producing in various places an irritation of the delicate membranes and causing the growth of excrescences (nodules or tubercles). In these excrescences the microbes flourish, multiply rapidly, then die, and by their decay give up to the use of the plant roots, season and the plants themselves. If the among other elements, also the nitrogen

The silo microbes have also proven their ability to take their required supplies of lime and potash from solid fragments of gypsum and feldspar, which soon becomes available plant food in the same way. To reclaim ordinary, worn-out lands, the bulletin advises to apply a sack of good superphosphate, or phosphate and potash, per acre upon well prepared land, with a seeding of clover to be turned under, and follow with any good mulch. This is the latest scientific and perhaps, also, the most economical and practical method.

ALFALFA OR LUZERNE.-There has recently been much inquiry about this crop. In Farmers' Bulletin, No. 2, Office of the Experiment Stations, U.S. Department of Agriculture, the following summary of the disadvantages and advantages of the plant appears: Disadvantages: (1) It is not easily established. (2) It is less hardy than clover. (3) If allowed to grow too loug its stalks become hard and woody. (4) Except in dry regions cattle cannot be safely pastured on it. (5) It requires peculiar treatment to make good hay. Advantages: (1) When established it does not run out. (2) It withstands drouth much better than clover. (3) It grows rapidly and may be cut early in the season. (4) It gathers a large amount of nitrogen from the air as well as from the soil, and is therefore very valuable as a fertilizing crop. (5) It furnishes several large crops of green fodder each season. (6) When properly cured it makes an excellent bay. (7) It is relished and digested by all farm animals and is an excellent flesh and milk producer. (8) It makes muscle rather than fat, and is therefore valuable to use with corn and other fat-producing crops to make a well-balanced ration for cattle.

It will be seen that alfalfa is a very valuable thing, both for feeding and as a fertilizing crop, but it requires peculiar conditions of climate and soil for growth, and careful culture and curing to make it a profitable crop.

MAPLE SUGAR MAKING.

The bounty offered to the manufacturers of this delectable sweet by the new tariff law, will no doubt give a new impetus to this industry. In no branch of farm industry bas greater progress been made and greater changes in process of manufacture been wrought than in this. The difference between the best maple sirup and sugar of the present time and the average of that produced a quarter of a century ago, is so great as to be hardly conceivable.

Indeed, a large proportion of that made thirty to thirty-five years since would hardly be of a quality that to-day would bring a price in any of our markets sufficient to pay the cost of production, while a really first-class article now is readily salable at such a price as to bring considerable of profit to the maker.

Yet there is even now a great deal of maple sugar made in our country, especially in some localities, that is little if any better than much that was made during the period to which I have referred.

The introduction of new and improved sugar-making apparatus has wrought great changes in the methods, and it has come to be thought, especially in some sections where this industry is largely carried on. that only by the use of these new appliances can sugar making be successfully and profitably done. While these improved evaporators and other apparatus used for this work are a great convenience, and no doubt may often be most profitably used, especially if the work is conducted on a large scale and one has the means wherewith to purchase the same, they are not an absolute essential to the production of a really first-class article, which I know can be produced if proper care and attention be given to the work, even where the sap is caught in home-made, wooden buckets and boiled in the old-fashioned, open pans. I know this can be done, for I have done it; but it is only by the greatest of care in all the details of manufacture, from beginning to end, that it can be accomplished. But there are many who bave maple trees chough to make, say from five hundred to one thousand pounds of maple sugar, or its equivalent iu sirup, per year, who may not feel able to purchase these high-priced apparatus, and to give a few suggestions and directions by which such may make a success in the production of a first-class quality, may be a benefit to some of your readers.

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SOLD EVERYWHERE.

The first, if not the most important essential to success is absolute cleanliness in all the details, from first to last. Without this a strictly first-class product cannot be made, even with the best evaporator ever invented; while if this can be secured the best in quality can be produced, even from sap that is caught in wooden buckets and evaporated iu common, sheet-iron

Our grandfathers would probably have doubted, had they been told that strictly pure maple sugar had of itself absolutely no color; yet such is the case. The very best now produced is really a pure white, or at least so nearly so as to pass for white. True, there is but little found in our markets iu its season but that has more or less of color to it; but it is the very best of which I am now speaking. Allowing no foreign matter of any kind to enter the sap from any source, from the time it leaves the tree until it is converted into either sirup or sugar, and by hastening the process of manufacture, from beginning to end; as by stauding, particularly in vessels that have been long in use, a change will take place in the sap. The sooner it is boiled down the better will be the results.

The gathering-tub or vat, which is usually fastened to the sled on which it is drawn, should be kept scrupulously clean, as well as the store-tub into which it is emptied. The sap, when poured iuto the gathering-tub, should be passed through a fine, cloth straiuer, which will be arranged in some way to correspond with the method by which the sap is got into this vessel. The most satisfactory arrangement I have ever used for gathering sap is a barrel or cask, made larger at the bottom than at the top, with a small cover hinged into the top head, opening outward (of course, the barrel must be double headed), and the cloth strainer fastened into this opening, so that the sap all passes through it, thus removing all leaves, pieces of bark, etc.

The location of the boiling place is a matter of considerable importance. It should, of course, be as near the center of the "bush," or camp, as is practicable; but if possible, it should be under a knoll or on a hillside, where the evaporator, or arch for boiling, if common open pans are used, should be at the lowest point. Just above this (and high enough, if it can be, so the sap may be conducted into the boilers by leaders of some kind) should be placed the tub, or tubs, for storage; aud still above this a bridge or platform of some kind arranged, on which the sap may be drawn with the sled, so as to be drawn out into the storage, and then from there drawn into the boilers as needed; and thus obviating the lifting of any of the sap after it is first placed in the gathering-tub until it is taken from the fire as

By sirup I do not mean the manufactured sirup which is ready for market, but that which is produced by "siruping off" in the camp, a process familiar to all sugar makers.

The boiling arch, where open, sheetiron pans are used, must correspond in

form and size to that of the boilers used, and may be built of either stone or briek. It should be tight all around, except at the front end, which is open and laid in mortar or cement of some kind. If built up around the sides of the pans, so as to prevent the fire from reaching the sides at any point, all burning on the sides will be avoided. It was this burning on the sides of the boilers or kettles that helped largely to give the maple sugar of "ye olden time" the fine amber and the maple flavor of which we often hear old people speak, and in which, according to their judgment, that of the present day is so much deficient. At the back end of the boiling arch a casting, with stove-pipe holes at each end, may be placed and pipes used for producing the requisito draft, which will be much cheaper than a chimney built either of brick or stone.

The sirup, when taken to the house, should be at once strained (preferably through a flaunel cloth) into a firkin or some other deep vessel, into the side of which, two or three inches above the bottom, is inserted a faucet for drawing off the sirup after it has thoroughly settled. Then, if this sirup is not too thick, all sediment in it will settle to the bottom aud below the point which it is drawn from. As I said before, the quicker it is converted iuto sirup or sugar, the better it will be, so that the sooner after it has had time to settle the finishing process of boiling it into either marketable sirup or sugar is performed, the more satisfactory will be the results, as a rule.

The old-time process of cleansing the sirup with either milk or the white of an egg, to cause a scum to rise upon it in which it was supposed all impurities were removed, is an obsolete practice. More impurities were left in the sugar in this manner than were ever removed by their use. To keep out the foreign matter of all kinds, from beginning to end, is allimportant to the best-success; for although a very little eolor from any source will not show in the sap itself, when it is eoncentrated in a few quarts or a few gallons of sirup, it will be sufficient to give it eonsiderable of a tinge and often to materially affect the flavor. E. J. BROWNELL. New York.

CORN DOWN SOUTH.

All in all, probably no other American crop is of equal importance to corn. It is about the most universally grown cereal we have. Every state is adapted to its cultivation, though of eourse not in the same degree. The North-west may be regarded as the greatest corn-producing portion of our country.

The South has never rated very high as a eorn country; yet actual experiments have proved that Tea Maize is one of the best and most profitable crops the southern farmer ean raise. Heretofore cotton has so monopolized the agricultural energy of the South, that eorn and other food erops have been much neglected. Could a full erop of cotton in the South and a big crop of coru in the North-west be made every year, the southern farmer might find it best to devote his entire time and energy to growing the fleecy staple, and buying his corn in Chicago, Kansas City or St. Louis. But he ean never tell six months beforehaud whether the seasons will be favorable to this con- a French stage driver. dition of things or not. Hence, every southern eotton grower should make sure of a good home supply of eorn. He should plant just as many acres in corn as in cotton, and not plant more of either than he can thoroughly eultivate-say ten acres of each to the plow.

The possibilities of the South for growing eorn were thoroughly demonstrated in the prize competition gotten up in 1889 by the proprietors of the American Agriculturist. Out of forty-five prizes offered for the best single-acre yields, the southern states eaptured fourteen of them, the first grand prize included. The average yield of these fourteen crops was ninety-five bushels per acre, the largest being two hundred and fifty-five and the smallest fifty-one bushels.

To make eorn a profitable erop in the South (or auywhere else, as to that matter), manure should be liberally applied. I have found eotton seed one of the very best of manures for corn. The old custom was to pile the seed in an immense heap as the cotton was ginned and allow it to

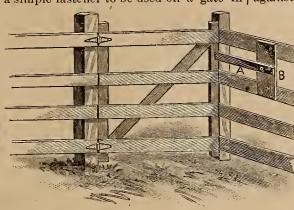
Later experiments, however, fully demonstrate that sound seed are best for manure. In the process of decay much of the valuable fertilizing properties escape in a gaseous form; and if the seed is allowed to decompose in the heap, of course this volatile manure is lost.

About the best manner of applying cotton seed to corn is this: Run a scooter in the old water furrow, followed immediately by an eight or ten inch sweep. Into this trench sow a liberal amount of sound cotton seed, say twice or three times as much as is usually sown when planting cotton. Throw two good furrows into this trench with a turningplow, covering as deeply as possible. If this work is done in January or the first half of February, the seed will soon begin to decay, and the soil will catch all or nearly all the fertilizing matter.

When you plant eorn, just reopen the first-mado furrow and drop the kernels right among the mass of decaying cotton seed; eover immediately. With good cultivation and seasons you cannot fail to make a fine crop. DICK NAYLOR.

GATE FASTENER.

Mr. C. Saudfords sends a description of a simple fastener to be used on a gate in



the corner of the fence. In the ent A is a | with no load. They were gentle and kind thin, springy piece of board nailed to B in such a way as to hold the gate shut until pushed back.

DOING UP A HORSE'S TAIL.

I will send you an easy and quick way of doing up a horse's tail in muddy weather.

First, take the tail in the left hand; with the right hand take hold at the upper end of a small bunch of hair, about eight or ten inches long; then select another bunch of the very longest hair in the tail, about the size of a man's finger. With both hands twist what is left in the left hand three or four times to the right; then with the right hand put it under and catch it with the left hand, and hold it till you take the long bunch or braid with the right hand and twist around, or wind around ouce or twice, according to the length of the hair, from the opposite direction. Then take the end of it, with what you have in your left hand and the short bunch; twist all together in a hard twist, double it and find the band of the braid that you wound around the tail, and stick it under twice.

After a little practice any farmer, by observing the above rule, ean do up his horse's tail anywhere, on the road or in the stable, in two or three minutes, without strings or ribbons, and it will stay till taken down. I have never seen or heard of a better and quieker way. I got it from J. D. P.

BUYING SEED.

In buying seed, particularly grass seed, the farmer must not only trade with reputable dealers, but he must also personally inspect the seed he buys, for his own protection. He ought to be acquainted (he is, usually) with the seed he wishes to buy, and if he find in it seed that he does not recognize, it should not be purchased.

There is so much carelessness, if not something worse, often, in harvesting seed, that the utmost precaution on the part of the buyer is necessary. The erop, the welfare of the farm and the farmer depend on this eareful scrutiny of

A farmer bought grass seed warranted to be pure. With the grass came up what proved to be the yellow daisy, never before seen in that region. It remained, is there now, and is reaching out further aud further every year. In the roadside it ereeps throughout the town, and appears in every piece of grass land.

take all the winter's rain, and become grass seed in which was the seed of the ging brought him to time aud he now

daisy, committed what ought to be considered an offence punishable by law. He is responsible for the introduction of a pest that mado less productive and less valuable a whole town-eounty, for there is no limit to the spreading of the plant. The man who wishes to buy a farm will not buy one, if he be wise, overrun with the white or yellow daisy, wild turnip or wormwood. The presence of any of these "spoil the looks" and add greatly to the cost of cultivating. George Appleton.

BREAKING COLTS.

A great many object to breaking colts young, claiming it stops growth. I think that is nonseuse. A good many uses can be made of the colts; besides they make much safer horses when broken young; and a good, safe horse is worth more money to anyone. I have broken three yearlings and three three-year-olds and will give my methods as well as show the difference. The first colt I ever broke was a yearling. I bitted him with bridle and surcingle about a week, letting him run in a yard two or three hours a day, well checked up; put him alougside of a good, brisk walker, to drive to a wagon, giving the colt three inches advantage on the evener against the fully matured horse. He drove

well from the start. When two years old I harrowed with him, giving him two inches advantage. In the fall I bought a twoyear-old to mate him, broke it in the same manner and drove them to a cutter and used a light rigiu summer. When five years old these colts would or could cover ten miles in one hour, and seemed tireless.

The next two colts I broke were three-year-olds. After getting them used to harness in the barn, I drove around first

colts and when I hitched them to a roller they went fairly well. I drove to the wood lot and put on a little jag of stovewood, the next time a little more, and so on until I could draw a fairly good load.

I think it is a great mistake to load full on first trial of horses. It to apt to make balky animals; and if one wants free walkers and good travelers, they never should drag the life out of them with too heavy loading. If they stop there is generally some good reason; the hames may be too tight or loose, oue tug may be shorter than the other, the whiffle-tree caught or something wrong. Look and see first what's up. I have known a horse to stop by the tie strap coming under his feet; it had fallen out of the ring and was dragging. Do not make too free use of a whip or check too tight, if you want your horses to be free drivers. Blanket them if you only stop a few minutes, and do not water too freely on the road.

The fifth colt I broke was a yearling and it worked well from the start, as it had been led alongside of its mother with a halter from the time it was a month old. She is now three years old, gentle, kind and true.

Rob, I bought this spring, to mate my three-year-old Maud. He was wild as a hawk, would start at every motion made toward him; when in the stable he would snort and jump when approached. (He was a niee looking three-year-old) but had never been handled properly. I used him with the utmost kindness, patting him and talking low to him; iu a few days I put on bits, let him champ away for awhile, put on a harness, let him stand until he was quiet; then put him alongside of a good, stouthorse with neekyoke, looked to see if the harness was all right and started them. My, but he was a wild one. He tried every way be could devise to get away, but it was no use; the old horse held him, stopping him when he tried to run, taking him along when he thought he wouldn't, turning him to the right, etc., as wanted; he fooled until tired out; then I hitched to a bob-sled, on bare ground and told them to go. He started to run; I whipped up the old horse and let them go around the field; when he wanted to stop, made him go until I was ready; kept him at it until he would go or stop as I wanted. The next day I put him alongside of my colt and hitched to a plow, having a man to hold it while I drove, and plowed until he showed signs of fatigue and then put him up. The man who harvested and sowed the Two weeks of steady plowing and drag-

works nicely for me, but is afraid of strangers yet and would not be a safe horse single. I do not use blinds, as he scems more timid with them on. He was always let run the same as ranch horses. Ranch horses are not a safe class of PRACTICAL FARMER.

DEPRESSION OF AGRICULTURE.

The working force in the United States is about twenty-three millions, with ten millions engaged in agriculture; with sixteen billions capital invested. I think it would be safe to say that the profits hardly pay for the labor, leaving nothing for the use of the land, for keeping up the buildings, fences, machinery, teams, taxes, insurance, etc.

From 1870 to 1875 the average value of an acre of wheat was \$13.66; corn in 1870 \$15.54, in 1889 \$7.63; wheat in 1889 \$7.63, while the acre value of the oats erop has dropped in twenty years from \$12.78 to \$7.24. The average yield in bushels has varied but a trifle. Is the depression from scarcity of money, high freights, gambling or overproduction?

For the last twenty years the population has increased sixty-six per cent, while the grain crops, in fact, nearly all farm crops, have increased, on the average, over one hundred per cent; thus production has outstripped population from thirty-five to forty per eent. Likewise, we find a decline in values from thirtyfive to forty per cent, not including the short crops of 1890. It is plain, if we could eut down production thirty-five or forty per cent, we should get as good prices as we did from 1870 to 1875, when a small surplus was raised, which was readily taken by the foreign demand. Our surplus has been crowded onto foreign markets, depressing prices all over the world.

Why this overproduction?
A great many farmers are deeply involved in debt; every nerve is strained to produce money erops to live, pay taxes and high interest, with the ultimate hope of lifting the mortgage; while those who are not in debt, are forced into increased production by low prices, in order to keep out of debt and keep their heads above water. The harder they work, the more they produce, and the less they get. It is like struggling in a mire of quicksand; the more you struggle, the deeper you get. The way out I cannot see. It looks now as if the money lords would own the country at the end of anwould own the country at the end of another twenty years, and the farmers will become tenants and serfs, like unto good old Ireland. C. W. CARPENTER.

March April May

Are the best months in which to purify your blood. Dur ing the long, cold winter, the blood becomes thin and impure, the body becomes weak and tired, the appetite may be lost, and just now the system craves the aid of a reliable medicine. Hood's Sarsaparilla is peculiarly adapted to purify and enrich the blood, to create a good appetite and to overcome that tired feeling. It increases in popularity every year, for it is the ideal spring medicine.

Very Much Run Down.

"I have been taking Hood's Sarsaparilla for about one month. I was very much run down in health, had no strength and no inclination to do anything. That tired feeling has left me, my appetite has returned, aud take it all in all, I am like a new man. We all take Hood's Sarsaparilla."-CHAUNCEY LATHAM, North Columbus, Ohio.

'Early last spring I was very much run down, had nervous headache, felt miserable and all that. I took Hood's Sarsaparilla and was much benefited by it. I recommend it to my friends."-MRS. J. M. TAYLOR,

Purify Blood

eral debility, and Hood's Sarsaparilla was recommended to us. After she had taken three bottles she was completely cured and built up. It is with great pleasure that I recommend Hood's Sarsaparilla." -Ben M. Mirrielees, Supt. Cincinnati & Louisville Mail Line Company, Cincinnati, Ohio.

Peculiar Building Up Power.

"I gladly attest the peculiar building up power of Hood's Sarsaparilla. For some time I was unable to attend to business, but finally at the request of a friend I used part of a bottle of Hood's Sarsaparilla, which gave tone and strength to my system, and made me feel young as when a boy."-Granville T. Woods, 61 and 66 Lodge St., Cincinnati, Ohio. N. B .- Be sure to get only

Hood's

Sarsaparilla Sold by all druggists. SI; six for \$5. Prepared only by C. I. HOOD & CO., Lowell, Mass.

100 Doses One Dollar

Our Farm.

NOTES FROM MY HOME GARDEN BY JOSEPH.



solidity, I have never met its equal except in the Annie Dine and Ruby Queen, which closely resemble it in Mr. Wm. Mansfield, the originator of the Mansfield tree tomato, states in a recent

letter, that he has grown a tomato tree twelve feet in height, and a single fruit two pounds six ounces, and the average tomato tree to produce from twenty to thirty pounds of ripe fruit. The illustrations of this "tree" tomato in advertisements and catalogues look very nice and tempting, but the reader should not be led to take the variety for a tree tomato. Naturally it has the spreading bush form of the other vigorous growing sorts, and the tree shape has to be given to it by pruning and tying to a tall stake. Mr. Mansfield comments on my advice in January 1st issue, as follows:

"It is all right to start the plants early and to force them rapidly, but it is all wrong to set them out-doors quite early if the weather be rough and cold. The tomato must have warm weather. It is far better for the plants to be kept in the greenhouse until the weather has become quite warm. The plants should then be about twenty-four inches high, with stalks one half an inch thick, and all ready for bloom. Here in Wisconsin we can set them about May 20th. Leave plenty of soil ou the roots when setting them; tie the plants to stakes as soon as set and you will not let the plants suffer from lack of water, you may expect results that will please you."

In eonelusion let me state distinctly and emphatically that I do not recommend this variety for general planting, either for market, eanning or home use. It is an interesting thing and of value to the amateur. The Dwarf Champion is yet the nearest serviceable tree tomato; but it also needs staking if to be kept in upright form. None of the true tree tomatoes, like French Upright, or Station, etc., have any practical value that I have been able to discover, and I have grown them annually for about half a dozen years.

BUSH LIMAS.—I cannot refrain from once more saying a good word for the bush Lima. This, of course, really means Henderson's, for the others are yet too high-priced to be grown for eating purposes. Mr. J. Q. A. Clowes, M. D., another Ohio subscriber, speaks of Henderson's Bush Lima as

"Two years ago I planted twenty-five seeds, which came up and grew nicely; but I soon found that even the eut-worms had discovered that bush Linuas are better for the following year's planting; these gave me two crops of as good Limas as I have ever eaten. It is a grand addition to ably smaller. the list of beans. We are no more obliged to haul a wagon-load of bean-poles, and the early fall frosts have no more terror for us."

Istarted two years ago with a package or two: now I have seed enough that I can plant a large patch; and I plant so thickly in the rows that eut-worms might take half of the plants without doing me any harm. If gaps oecur I take up some of the plants where too thick and fill out; they transplant readily. Let no one neglect to plant some of these fine bush Limas.

GOOD CABBAGE SEED .- Seed growing has become a science. People nowadays want good vegetables and some assurance that the seed they buy will bring them good vegetables. Formerly, the home gardener either raised his own seeds, or picked up here and there, among friends and neighbors, what ho thought ho neoded or could get. Everything then was hit or miss. If the seed produced anything, all right; if not, it did not matter, for, indeed

very exalted. Now, things have changed. We anticipate success, and grumble if our expectations are not realized. This change is due not only to the improvement of varieties, but also to the eare and skill which our competing seedsmen exercise in the production and selection of seeds. The seedsman failing to send out pedigree seed-seed improved by long-continued, careful selection of seed stalk-would soon lose his reputation and his trade. Old gardeners who continue to grow their own seed, may continue to sow cabbage seeds grown from stumps, or onion seed grown from imperfect or immature bulbs, season after season; but the man who buys his seed from any of our seedsmen of known reliability and respectability. will get eabbage seed from stock grown on the center shoot, or onion seed produeed from perfect bulbs.

Fortunately, the list of reliable seedsmen is a large one and there is no need of giving names, for they are all found, at this time of the year, in the advertising eolumns of FARM AND FIRESIDE. Only when it comes to novelties, we must take the description as given in the catalogues, not with one grain, but rather a whole number of "grains of salt."

Orehard and Small Fruits. CONDUCTED BY SAMUEL B. GREEN.

ELEMENTS WITHDRAWN BY FRUIT CROPS.

Prof. E. W. Hilgard, in California Experiment Station Bulletin No. 88.

The subjoined table gives some insight into the amounts removed from the soil by some of the chief fruit crops, of nitrogen, potash, phosphoric acid and lime; these being, according to all experience, the only ones of which the replacement need ordinarily be considered in fertilization. These amounts are expressed both with reference to 1,000 pounds of fresh fruit and to what, according to our best information, may be assumed to be a "fair erop" per aere. The latter figure is, of give plenty of water. If the ground is course, liable to great variations and rich and well exposed to the sun, and if differences of opinion; but by the aid of a little arithmetic each one can calculate for himself the data suitable to his own ease or views. The erop assumed in the ease of oranges is 325 boxes per acre of fifteenyear-old trees; that of grapes is intended to represent a mean between upland and lowlands.

> QUANTITIES OF SOIL INGREDIENTS WITHDRAWN BY VARIOUS FRUIT CROPS.

FRESH FRUIT.	Total asb, ibs.	Potaslı,	Phos. acid, lbs.	Nitro- gen, lbs.
GRAPES, 1,000 lbs Crop of 10,000 lbs.	8.8	5.0	1.52	1.70
per acre		50.0	15.20	17.00
ORANGES, (seed- less), 1,000 lbs. Crop of 20,000 lbs.	6.07	2.78	.67	2.69
per acre PEARS, 1,000 lbs	3.3	55.60 / 1.8	13.40	53.80 .6
Crop of 20,000 lbs.	,,,,	30	10	12
PLUMS, 10,000 lbs Crop of 30,000 lbs.	2.9	1.72	.44	4.2
per acre APPLES, 1,000 lbs	2.2	51.60 .80	13.20 .03	167.7 .6
Crop of 20.000 lbs. per acre		16.00	6.00	12.0

It will be seen that for equal weights of these fruits, grapes take from the soil by far the largest amount of mineral matter, flavored than other sorts, so I only saved of which nearly five ninths is potash; five plants, which gave me seed enough they also earry off the largest amount of phosphoric acid. For seedless grapes the latter item would, however, be consider-

Next in the drain of total mineral matter from the soil stands the orange; it also draws heavily on the potash, and also npon the nitrogen of the soil, but less than the grape upon phosphoric acid; this independently of the seeds, the analysis having been referred to seedless fruit. Seed-bearing (seedling) fruit would draw more heavily both on phosphoric acid and nitrogen.

Pears come next as regards total mineral matter, but draw quite lightly on nitrogen.

Plums (including prunes) are conspicnous chiefly for their heavy draught on the nitrogen of the soil, greatly exceeding in that respect the orange for equal weights, and enormously for an (assumed) average

The difference between apples and pears in respect to soil exhaustion for an equal weight of fruit is quito striking, the amount of potash in apples being less than half, the phosphorle acld only a trifle over half as much as in the pear, while nitro-

the expectations at that time were not gen is equal in both and quite low as compared to the orange, which has over four times as much, and must therefore be aecounted relatively much more nourishing to man, as well as more exhausting to the

INQUIRIES ANSWERED

BY SAMUEL B. GREEN.

Japan Persimmon.-H. V. S., White House, N. J. The Japan persimmon will not flourish as far north as any part of New Jersey, at least without protection. The trees can be obtained of most of the nurserymen. You might try J. C. Lovett & Co., Little Silver, New Jersey. They can be grafted on the native persimmon.

Fighting the Plum Curculio.—T. L. B., Boulder, Colo., writes: "Prof. A. J. Cook, in the January 1st number, recommends to plant plum trees among the others for protection. Would it not be raising a more vigorous brood of curculios for the next season if they were neglected, as they do better on the plum?"

REPLY:-The plum trees used as a harbor for the curculio should never be neglected, but should be regularly jarred and the insects gathered and destroyed.

American Chestnut and Chinquapiu.— J. C., Irou, Ill., writes: "l. How fur apart must the American sweet chestnut and the dwarf chinquapin chestnut be set in an orchard? 2. Where can I get the dwarf chinquapin?"

REPLY:-I should think the chestnut ought to be at least twenty-five feet apart, and the chinquapin about fifteen feet apart. 2. The chinquapin can be obtained of any of the larger nurserymen, especially of those of Maryland and Virginia.

Land for Small Fruits.—W. R. R., Madrid, Iowa, writes: "My land is clay loam. When the season is dry it does not produce well. Strawberries and raspberries winter-kill. What is the cause?"

REPLY:-You have not told us how you cultivate your small fruit; whether you mulch thoroughly in winter, or whether your land is wet or dry. All these are points that would have to be considered before answering you satisfactorily. I think if your land is good, or even fair corn land, it will produce strawberries and raspberries in abundance, if they have proper care. You write as if your trouble was in winter-killing alone. Such would be very apt to be the case on a clay loam, unless the fruit was heavily mulched. If the land has standing water on it in winter, it should be ridged and the fruit grown on the ridges to keep it dry. If the raspberries winter-kill, they should be laid down and covered in winter with soil or mulch. I would mulch all the land in small fruit on a place like yours.

Peach and Plum Pits.—S. F. H., Plymouth, Mich., writes: "1. Where can I get peach pits which will not be in danger of yellows? 2. Are some kinds more sure of producing same kind of peaches than others? 3. What kinds? 4. Will plums grown from pits be same as original? 5. What kind of plums are considered most hardy? 6. Are Prunis simoni, advertised by Ontario nurseries, Geneva, N. Y., of any account? 7. Are peach trees sown from pits more hardy than budded ones?"

REPLY:—1. Probably the trees of the moun-

REPLY:-1. Probably the trees of the mountains of Tennessee are as free from the disease as those of any known section. 2. Yes; but the only certain way to propagate the best kinds is by budding. 3. Pits from most of the good varieties produce trees of good fruit. The Fleenor cling is a peach well known in some parts of Indiana, and is reported on good authority to come true from seed. The Wager and Morris' White are reported to come true from seed, but it is very doubtful if they are like the specimens of that name. 4. No; they vary from the original or parent tree, even more than peaches. 5. The most hardy, cultirated kinds of plums are the De Soto, Forest Garden and Weaver; but their quality is not so good as many varieties that are more tender. 6. Prunis simoni is not very hardy, and is not a desirable variety. 7. They are generally considered to be so, but there is room to doubt it if they are budded and strong, healthy stocks. strong, healthy stocks.

INSECTS ON FRUIT TREES

Can be destroyed by spraying with London Purple. Diseases of grape vines can be checked by spraying with Bordeaux mixture. The Field Force Pump Co., of Lockport, N. Y.. manufacture the Knapsack Sprayer and a full line of Orchard and Vineyard Outfits. Write them for circulars and directions.

850,000 GRAPE VI





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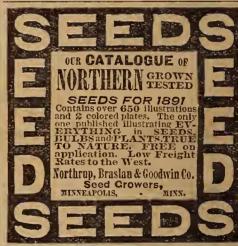
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A beautiful shruhhy plant two feet high. A mass of bright golden flowers from Junc to December.

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Our Farm.

THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey

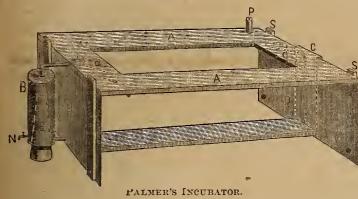
PALMER'S INCUBATOR.

n incubator holding 250 eggs is planned by Mr. D. M. Palmer, N. Y. The tank is 42 inches long, 28 inches wide and 12 inches deep outside. The plan given simply shows the tank and its arrangement as it comes from the plumber's, ready for the case. To complete the incubator, the tank and parts are enclosed with two thicknesses of %-inch, matched boards, having four layers of sheathing paper between them. Legs can be added if preferred. The tops of the small ventilating tubes are kept closed the last four days of the liatch by movable plates on top. These tubes are made of strips of galvanized wire, 31/2 inches wide and 11/2 inch longer than the inside depth of the machine. Fold them together, cut a small piece from one side of the bottom end, punch a hole near the bottom of the end pieces of the machine (as in the illustration), about 3 inches from the corners, and then solder the tubes on the outside of the ends, over the holes. This gives the ventilation from the bottom.

The boiler is made of copper, the connecting pipes to tank being one inch in diameter. The cost of the tank and appurtenances is about \$15, lumber \$6, nails, glass, hinges, screws, etc., about

There is a regulating arrangement that may be attached, consisting of a thermostat battery and motor, which costs about \$10.50. The motor turns the flame up or down as required and is very reliable, having also an alarm bell. It also shuts and opens the ventilator and has absolute control of the heat.

In the cut the boiler (B) is 5 inches in diameter and 14 inches long. The re-



turn tank (C) is 7 inches wide and 3/4 inches | them to a starvation point, but to a condideep. The end pieces (D D) are each 291/2 inches long and 13 inches wide and should reach to the top edge of the tank, which is made of galvanized sheet-iron (end pieces and tank), and the ventilating tubes (SSS S) are 1/2x1 inch and 14 inches long. The strips to guide the flow of water in the tank are shown $(a \ a)$, while the dotted lines (E) in boiler, show the position of the heating flue. The pipe (P) is used to fill the tank with water. The holes through the bottom edges of the end piece (OO) are to lower the ends of the ventilating tubes. N is the faucet to draw off the water. A is the top tank, 7 inches wide and ¾ inch deep.

SCATTER AIR-SLACKED LIME.

Intimately mix a gill of crude carbolic acid with a quart of dry, air-slacked limo; then mix this quart with two pecks of lime. Dust the dry lime over every part of the poultry-house, on the walls, in the nests, over the roosts and over the yards. It will be found an excellent disinfectant and will do more to destroy the germs of disease, and with as little cost, than anything else that can bo tried.

DEAFNESS CAN'T BE CURED

by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, Deafness is the result, and unless the inflammation can be taken ont and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are eaused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that we cannot cure by taking Hall's Catarrh Cure, 8 and for circulars, free.

F.J. CHENEY & CO., Toledo, O. Sold by druggists, 75 cents,

HARD OR SOFT FOOD.

Experience shows that hard food is better than soft food for poultry, not that it contains more nutrition, but for the reason that when soft food is given the hens are tempted to eat a larger proportion than should be the case. The giving of soft food leads to overfeeding and impairs the digestion. It also supplies the wants of tho fowl more readily than hard food, and so completely satisfies it that the inducement to work and scratch (so essential to health and the thrift of the fowl) is lessened. Then, there is the fact that when giving soft food the poultryman, by mixing several kinds, is liable to give more of one kind than may be needed, while with hard grains the fowls have a greater privilege of selection of that which they prefer; but with mixed soft food they must eat everything of which it is composed -all or none-and thereby surfeit themselves. It is proper to give soft food, so as to feed some needed substances, but we believe three times a week sufficient. Give whole grain, and scatter it far and wide, or mix it with litter, thus compelling each hen to hunt and scratch for all she receives, which will keep her in health and promote egg production.

WHY THEY DO NOT LAY.

Readers write us and state that with the hens in full health, combs bright and indicating vigor, feed given regularly, houses kept clean and everything kept favorable, no eggs are received and they ask: "Why do not the hens lay?" It would be difficult to attempt to give a reason, or reasons. No two flocks are alike; breeds differ, conditions vary and even individnal characteristics have no relation to each other. Overfeeding is the most fruitful, and lack of exercise comes next. The great gray lice that prey on the skin of the heads and necks, and which cannot be seen unless by a close search, work as industriously in winter as in summer. A small crack in the wall of the poultryhouse, or a top ventilator, that permits the

fowls to take cold from draughts, will cause a loss of eggs. We have found, however, that fowls are mostly too fat. They may not appear so, and some will not admit the fact, but when killed and dressed for the table, the result of heavy feeding becomes apparent and the object should be to diet the fowls, not to reduce

tion for work.

WHAT IS ROUP.

Swelled heads, closed eyes, hoarse breathing, sneezing, canker mouth, drooping without apparent cause and wasting away gradually, are all indications of some form of roup. Roup is a term applied to nearly all diseases of the lungs and throat, but there are many kinds of roup. It sometimes results in scrofula lumps, abscesses and sores following it. In its contagious form there is a very foul odor discernable. There is no cure for some kinds of roup and it is cheaper to kill all the hens, disinfect and begin anew. For some forms a mixture of one part spirits of turpentine and three parts sweet oil, anointing the head and face with a few drops daily, with ten drops down the throat, is excellent. A tablespoonful of chlorate of potash in each quart of drinking water is also a good remedy.

LEG WEAKNESS.

At this season leg weakness in fowls and also with chicks results, and it gives ninch annoyance to those who do not know the cause. When a hen is apparently lame and cannot stand on her legs, remove her at once from the yard containing the male. This difficulty is more general in spring than at any other time. When little chicks have leg weakness it may be due to dampness, lack of warmth and also lack of work. It is important that little chicks scratch and keep in exercise.

WHOLE CORN.

Whole corn is better than corn meal. It gives better results with Leghorns and other small breeds, than with Brahmas and large fowls, as the former is more active, while the latter takes on fat readily. Though lacking in the mineral elements, for some cause unexplained, corn has given good results and reports in its favor are very satisfactory and encouraging.

HOW MANY MALES.

One male with ten hens and one drake with five ducks is the proper porportion. If two or three males are together in the same yard, they will quarrel and the whole be useless. If a number of males are kept they should be on a range and never closely confined together.

INQUIRIES ANSWERED.

Packing Eggs.-M. H., Cooper, Iowa. "Which is the best way of packing eggs for home use?"

REPLY: -Sec reply to G. W. D.

Poultry-house.—J. A., Dallas Center, Iowa. "How large a house should I build for 100 hens?"

REPLY:-A house 10x60 feet, divided into four apartments, would be a convenient size.

Preserving Eggs.-G. W. D., Clifford. "What is the best formula for preserving eggs, other than pickling?" REPLY:-Keep them in a cool place, on

racks, and turn them half over twice a week. No packing is necessary.

Marking Turkeys.—Mrs. W. E. T., Phœnix, Arizona. "Please give the best method of marking turkeys."

REPLY:-It can be done by punching holes in the web of the feet, cutting the piece out. Markers are sold for that purpose. Leg-bands, numbered, are also used by some.

Probably Overfeeding.—S. S., Benton-ville, Indiana. "Onr hens have all the range they desire, good house, plenty of corn, oats, boiled mess, and appear healthy, but we have found five dead."

Reply:—It may be poison from something eaten, or it may be from appoplexy, due to overfeeding and the heus in a very fat condition.

Eggs for Hatching.—Mrs. W. F., Boswell, Indiana. "1. How long will eggs keep for hatching if packed in boxes or baskets, with lid fastened on and inverted twice a week. 2. Will it spoil eggs for hatching if they touch each other?"

REPLY:-1. If kept in a cool place they may be retained for six weeks. 2. If they are fresh it will do no harm for them to touch.

Salicylic Acid for Preserving Eggs.—C. N. K., East Taunton, Mass. "How would a

EGGS \$1 per setting, 14 varieties. Write for circular now. Ohio Poultry Yards, Sherwood, Ohio.

FOR SALE CHEAP from 20 varieties of choice stock. Send stamp for 24 page catalogue. J. S. SHOEMAKER, Dakota, Ill.



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It is absolutely pure. Highly concentrated. In quantity it costs less than a tenth of a cent a day. Strictly a medicine. Prevents and cures all diseases. Good for young chicks. Worth more than gold when hens Moult. "One large can saved me \$40, send six for \$5 to prevent roup," says a customer. If you can't get it send us 50 cents for two packs, five \$1. A 21-4 point can \$1.20 post-paid; 4 curs \$5, express paid. "THE BEST FOULTILY FATELE," sandle copy free. Poultry Raising Guide free with \$1 orders or more, \$1, \(\frac{1}{2}, \) JOHNSON & Co₁₁ Boston, Mass.

solution of salicylic acid do to preserve eggs in, from May to December, and please state for which crop poultry manure is most val-uable?"

REPLY:-It will preserve them, but no solution will keep them so as to render them equal to fresh eggs. Poultry droppings are excellent for all kinds of garden crops and cspecially for onions.

Hereditary Discase.—P. S. W., Walloo, Neb. "My fowls were apparently healthy, have free range, and are well cared for, with no appearance of deformity before this season. Of fifty raised this season, three males and a pullet have unnatural culargement of the bone of the back, at the junction of the thigh, also diseased liver and sores inside of the back."

REPLY:-It is of a scrofulous tendency and perhaps hereditary, being transmitted from some member of the flock not showing the disease, which may have resulted from roup in the first place.

Drooping Hens.—Mrs. K. Z., Plaza, Wash. "What is the matter with my chickens? Some of my hense at as though nothing was the matter with them, and yet they will get so poor and keep on getting poor, until they die. Sometimes they will live a month and sometimes longer. They have a good range, plenty to eat and spring water to drink, with plenty of gravel?"

REPLY:-It may be due to the work of the large gray lice, which prey on the heads and necks, close to the skin, though roup will often give the same symptoms. Anoint the head well, twice a week, with a mixture of one part spirits of turpentine and four parts sweet oil, mixed.

CORRESPONDENCE.

EARLY CHICKS.—I wish to say a few words to those who anticipate raising early chicks on a small scale, with but little outlay. First, it is desirable that the eggs be put under two or three hens at the same time, that the chicks may all be given to one hen. Then get a light store-box, of convenient size, say thirty inches in length. Place the box on its side and if you have no window-sash that you can use for a door, you can prepare a door with one pane of glass, so arranged as to admit sunlight and keep out the cold winds. Put carpet or something in the box to keep the chicks' feet dry and warm. Glean out the box often, using dry earth to keep it fresh. Frequently put in hay seed or chaff, with a little wheat, to cause them to exercise. It is well to put the hen out each morning and give her water, at which time water the chicks, that the water may not get spilled in the box. Feed often-corn bread moistened with milk is excellent. If gapes are feared, mix corn meal with milk or water and set it in a warm place over night, that it may sonr; feed this to them from the beginning. Last year I began this after one died and lost no more. Always feed on a clean board or pan. At one time last year I had 113 chicks with five hens and nearly all went into the early market. To keep on nawks, put new iin pans on poles.

Palatine, W. Va. Mrs. B. F. R.

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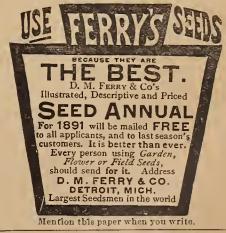
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EXTRACTS FROM CORRESPONDENCE.

FROM NEBRASKA.-Crops were very light last year, but the prospects for this year are good. Cattle are very scarce now. Grain is high and hogs cheap, contrary to the general rule. Rolling prairie, unimproved land, is \$7 per acre: improved, \$8 to \$10; bottom land, from \$15 to \$25. Considering the quality of the land here, these prices should draw the attention of the tied-down renters that are toiling under hard masters. The soil is very rich along all small H. A. B. streams.

Sweetwater, Neb.

FROM IOWA .- This is a great dalry country, and we claim Linn county as one of the banner counties of the state in the production of butter and cheese. A great many hogs are raised and slaughtered here in our own county, Cedar Rapids having one of the largest packing-houses in the country. We had fairly good crops the past season, of most farm products. I have lived in Iowa twentysix years and never knew a failure of crops in old Linn. Small fruits do well here, but apples are not to be depended on. Vegetables do well. Springville, Iowa. E. H.

FROM KANSAS.-Wichita is one of the best counties in the state for stock. Two streams, Beaver and White creeks, run through the county. There is plenty of wild grass for horses, cattle and sheep, and they thrive the year around, except when there is snow on the ground-and it seldom ever snows to cover the grass over three days at a time. Wheat was a good crop last year, and it is selling for sixty-five cents a bushel. Oats was an average crop, but potatoes failed. Land is very dull sale here now; it sells at about \$1,000 a quarter section, except when near the county seat. Selkirk, Kan.

FROM WASHINGTON .- We are having a very pleasant winter here. Wild flowers are in bloom, among them the little flower known as "Sweet harbinger of spring." All fall-sown crops are looking remarkably well, and farmers are looking forward to another bountiful harvest. We have never had a failure of crops here. We have been able only to chronicle one blizzard in twenty-seven years, and no cyclone. We know of nothing that can be raised in our old home state, Ohio, that would not produce a fair crop here. Klickitat county has homes of fair average land, good water and a healthy climate for thousands. T. M. W.

Lyle, Washington.

FROM IDAHO .- I live in what is called the Big Potalach country, derived from an Indian name. The soil here is a mineral deposit, from two to four feet deep, very productive, yielding of wheat from 30 to 60 bushels per acre; barley, 60 and upward; flax, 15 to 30 per acre; and oats, 70 bushels per acre. We raise corn and all kinds of vegetables in profusiou. I think I can beat "Joseph" on onions here. We raise frutt, such as apples, pears, plums, prunes, apricots, grapes and all of the smaller fruits. We have a good climate. Talk about importing barley into these United States! Give us a steady market for barley and we will surprise you.

Leland, Idaho.

FROM WEST VIRGINIA.-This state is small, but her resources promise to make her great in the near future. She has an abundance of timber, coal and oil lands as yet undeveloped. Harrison county is our best coal district. As for farming, the Ohio bottoms are unequaled. Blennerhassett Island, one mlle below Parkersburg, and containing about 300 acres, is almost invaluable for farming and gardening. As a stock country, West Virginia is advancing very rapidly, especially in fine horses. Wheat is 95 cents per bushel; corn, 60 to 70 cents; oats, 60 to 65 cents; meal, 70 cents; bran, \$25 per ton; flour, \$6 per barrel; chop, \$27 per tou; timothy, \$10 per ton; potatoes, \$1 to \$1.25 per bushel; apples, \$6 per barrel; butter, 20 cents per pound; eggs, 23 cents per doz.

W. J. B. H. Parkersburg, W. Va.

FROM TENNESSEE.-Murfreesboro is a town of five thousand inhabitants, situated exactly in the center of the state, and also in the center of the central basin of middle Tennessee. Its chief exports are corn, wheat, cotton and bacon. Murfreesboro has electric lights, street-cars, two banks, four drug stores, several cotton gins and one railroad-the Nashville, Chattanooga and St. Louis. We need another one to secure cheap freights. Corn is worth 60 cents per bushel; wheat, 95 cents; sweet potatoes, 35 cents; eggs, 15 cents per dozen; hens, 20 cents each; turkeys, 6 cents per pound; beeves, 2 cents per pound on foot. Run-down lands are for sale cheap. Cotton has worn much of the land out, but it is not too late to reclaim it; it will grow clover and grasses well. Cotton is the main crop in this county. and it will average about one fifth of a bale to the acre. We want northern capital and people to improve and build up our country. Northern people will receive a cordial welcome E. W. A.

Fiorence Station, Tenn.

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The Pioneer Buggy Co., Columbus, Ohio, on receipt of 10 cents, will send you their treatise on the horse, which also answers the above question.

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FROM KENTUCKY .- Calloway county is bounded on the east by. the beautiful Tennessee river. A railroad from Paducah, sixty miles from here, passes through Murray, the county seat. We, on the east side of the county, ship by river. We have good shipping facilities, and some of the finest lands in the state. Corn produces from 15 to 50 bushels per acre under our slipshod methods. Tobacco. which is our money crop, makes 1,000 pounds per acre. We have some of the finest tobacco lands in the Union. It is no trouble to make ten-ceut tobacco. This is a splendid fruit and vegetable country; but we need good farmers here to get money out of our soil. We have no real farmers here; they make a sort of living by working about four months in the year. There is no reason why an industrious farmer should not get rich here. Good uuimproved land can be had at \$5 to \$10 and improved for \$10 to \$20 per acre. We would welcome any honest, industrious farmer. farmer from one of the more northern states could soon become independent here. We need good farmers, truckers and stock raisers. Cattle do with little feeding. We have a fine climate and good water.

Hamlin, Ky.

FROM PENNSYLVANIA.-Lehlgh county is a mining country. Iron ore is the most abundant. The ore is dug out and hauled on carts to the washings, which are erected on trestles ten to twenty-five feet high, so that the mud which is washed out will easily flow to a dam made to receive it. The ore comes out of the washery at the highest end, where it runs into a wheelbarrow and is carted into a shute or on a heap, from which it is taken by wagon to the furnace or to a wharf on the railroad. The wages paid at present to miners is ninety cents a day. They have to work eleven hours a day during the summer and in winter as long as they cau see. The price of ore is about three dollars per ton, delivered at the furnace. Furnaces are pleuty here. Almost every town of importance on the railroad has its furnace. Allentown has the most irou works, several rolling mills, pipe foundries, wire mill, railroad-spike mill, gas-pipe works, lock works and several common iron foundries. In most places where wells are to be dug for washing ore, they cost too much. Water lies too deen, We have wells here worked through solld stone (lime) several hundred feet, costing \$5,000 and more. Some are dug about one hundred feet and theu drilled until water is reached. J. H. M.

Wescosville, Pa.

FROM WYOMING.-Lander is a town of about seven hundred people and is situated in a beautiful little valley in the heart of the Rocky mountains. The main range is about twenty-five miles to the west. This is a farming, stock, mining and petroleum oil country, and is destined to be the Pennsylvania of the west. It is in many respects similar to Colorado, with better prices for farm products, and at present less money invested in farms. Laud ranges from three to fifteen dollars per acre, including water right for irrigating same. The uearest railway point at present is Rawlins, one hundred and thirty miles south on the Union Pacific railroad. The price of farm products at present is; wheat and oats,21/2 cents per pound; hay, \$15 to \$25 per ton; potatoes, 4 to 5 cents per pound; onions, 6 cents per pound; cabbages, 6 cents per pound. Lander is the county seat of Fremont county and is a growing business town. We have two flowing oil wells within nine miles of Lander, and plenty of good coal within five miles. Near us is an Indian reservation, with thousands of acres of good land to be opened to settlers some time. Also, about three thousand Indians; but now they are good Indians. We have good water, a perfect climate and a good many

things to be thankful for. Lander, Wyoming.

FROM VIRGINIA.-Rockingham county is situated in the famous valley of Virginico. It coutains 696,059 acres. The average assessed value is \$13 per acre. It is the largest county in the state, and the third wealthiest in the state. Every part of the county is well watered by the Shonandoah river and its numerous tributaries. Rockingham is one of the largest grain producing counties in the state. Our springs are numerous and have a worldrenown reputation for their medicinal propertles. The universal wealth of this county is very great; iron, copper, lead, coal, coal oil, marble of many varietles. Limestone in every part of the county. Our minerals are attracting the capitalists of the worth; large amounts of money are being put in mineral lands. Harrisonburg is the county seat, and is improving very rapidly; very fine buildings, good streets, water works, electric lights. The United States custom house, that was completed last year, is one of the finest in the state Rockingham stands at the head, both as to number and character of her schools. The population of Harrisonburg is about 4.000; of the county nearly 33,000, of which 3,500 are colored. There are many small towns in the county. Harrisonburg has "Industries," such as tan yard, shoe factory, potteries, woodworking establishments, that employ from 1,200 to 1,500 men and women. The Harrisonburg Land and Improvement Company is negotiating for industries that will employ about 1,500 hands; boiler and machine works, steel plant and cannery. Our minerals are bound to make this a large manufacturing town. It has one of the fluest agricultural

counties in the state to back it. Our farms are small compared to some counties in the state. We are very much like Pennsylvania: 150 acres is a big farm here. Land sells from \$25 to \$100 per acre. Rockingham is noted for its good dwellings, barns, feucing, roads and fine horses. Harrisonburg is the greatest horse market in the state. Our climate cannot be excelled. In winter the mercury hardly ever reaches zero. In summer it is very hot when it reaches 90°. Sunstrokes and malaria are unknown to us. J. C. S.

Harrisonburg, Va.

FROM UTAH.-Sevier county was settled about twenty-five years ago, but was broken up by the Iudians. It was resettled about five years later and has grown in population quite rapidly ever since. The Sevier valley is about fifty miles long and will average about seven miles wide running from north-east to south-west, with mountains on each side which almost reach an altitude of perpetual snow. These mountains are covered with grass which furnish good pasture for stock and sheep in summer, and are also covered with timber of various kinds, from the scrub cedar and nut pine, which afford abundance of fuel, to the quaking ash, fur, pine, etc., for poles and excellent saw timber, which furnish building material in abundance. Lumber sells from \$12 to \$20 per 1,000 feet. There is a variety of building rock near at hand. These mountains are also filled with minerals of almost every description, coal, salt, gypsum, iron, lead, copper, silver, gold, alum, sulphur, etc. The Sevier river traverses the valley from south to north; it averages about sixty feet in width and four feet in depth, with a fall of about five feet to the mile. There are canals led out on each side almost the whole distance. The river would be drained but for the seapage and waste water and also mountain streams which replenish it, and afford water from one canal to another. The land is all made from the mountains and varies iu color and quality according to the nature of its source. There are quite a number of artesian wells which furnish excellent water in some parts of the valley. Land is worth from \$10 to \$25 per acre and will produce from 20 to 30 bushels of wheat per acre, which is worth 60 cents per bushel; oats 30 to 50 bushels per acre, worth 11/4 cents per pound; potatoes 50 to 75 bushels per acre, worth 33 cents per bushel; alfalfa 5 tous per acre, 3 cuttings; timothy and red top 21/2 tons per acre, worth \$4 to \$6 per ton. Corn is not a staple crop here, but does well if attended well. All kinds of fruit which are adapted to a moderate climate do well. Cows are worth \$20; horses, \$60 to \$100; sheep, \$2.50 per head. We have a good school system. The people are generally a moral class and they have meetings and Suuday-schools in every town. Richfield is the county seat. There are chances for people of all professions and trades. Thousands can make good homes in this county; wages run from \$1 to \$1.50 per day for common labor, and mechanics command good wages the year round. J. S. G. Sigurd, Sevier county, Ulah.

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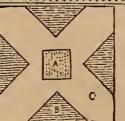
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Queries.

READ THIS NOTICE. TO

Questions from regular subscribers of Farm and Fireside, and relating to matters of general interest, will be answered in these columns free of charge. Querists desiring immediate replies, or asking information muon matters of personal interest only, should enclose stamps for return postage. The full name and post-office address of the inquirer should accompany each query, in order that we may answer by mail if necessary. Queries must be received at least two weeks hefore the date of the issue in which the answer is expected. Queries should not be written on paper containing matters of husiness, and should be written on one side of the paper only.

Berry Boxes.—W. L. T., Attica, Ind. You can get berry boxes of the Berlin Fruit Box Co., Berliu Heights, Ohio.

Journal on Carpenteriug.—G. U., Economy, Pa. Carpentry and Building, 96-102 Reade St., New York, is probably what you want.

Crauberry Plants.—E. A. W., Crescent City, Cal. You can get cranberry plants of the Northern and north-western nurserymen who advertise in this paper.

Cotton-seed Meal.—Several inquirers wish to know where cotton-seed meal can be obtained. Those who have it for sale should advertise in the northern papers.

Largest Ouion.—G. P., Montesano, Wash., asks: "Which is the largest oniou for a long, cool season?"

REPLY:—The Prizetaker, no doubt.

Dairy Thermometer.—J. R. M., Fort Gaines, Ga. You can obtain a dairy thermometer from any dealer in dairy supplies. Send to Vermont Farm Machine Co., Bellow Falls, Vermont.

Book on Floriculture.—J. D. D., Tomp-klu's Cove, N. Y., writes for a book on the care and culture of house plants. We recommend "Winter Greeneries," price \$1., published by Orange Judd Co., N. Y.

Osage Orange Hedge Fence.—R. H. S., Glenville Neb., asks: "What is the best time of the year to lay Osage orange hedge fence?"

REPLY:—In the spring, before it has leaved out, is the time the work is usually done.

Coleridge—Emerson.—Mrs. McM., Wiunepeg, Manitoba, writes: "When did the poet Coleridge live? In what year did Emerson

REPLY:—Coleridge lived from 1772 to 1834. Emersou died in 1882.

New Ground for Onions.—D. B., Valley City, Ind., asks how new ground would do for onion culture.

REPLY BY JOSEPH:—Any ground that is reasonably free from weed seeds and in good fertility, can be used to advantage, provided, however, the surface can be made smooth and even and mellow.

Too Much Water.—L. S. M., Montana, writes: "Cabbages grown in this section have a tendency to run to leaves and make very small heads, and onions have a tendency to run to top, if irrigated two or three times. What can be done?"

REPLY BY JOSEPH:—The trouble, evidently, is the overabundant application of water. Irrigate less freely. Ouions especially are liable to act in just the way complained of if too much water is given.

Best Melons.—C. R. B., Henrietta, Texas.

Best Melons.—C. R. B., Henrietta, Texas, asks which is the best and carliest variety of cantaloupe and watermelon for his section.

REPLY BY JOSEPH:—We will have to leave it to some one in the inquirer's own vicinity or state to tell us what varieties are best for that section. I find the Emerald Gcm to be earliest and best, but also about the smallest of the musk varieties; and the Vick's Early the earliest of the watermelons that are worth growing.

earnest of the watermeions that are worth growing.

Nitrate of Soda for Early Vegetables.—
A. T. asks: "How is nitrate of soda used for melons, tomatoes and other crops?"

REPLY BY JOSEPH:—For tomatoes, if used at all, it should be applied at the time the plants are set in open ground, a small handful to the plant, scattered in a radius of a foot or less. I have noticed little or no effect of application to melons. The best results from nitrate of soda are usually obtained with onions, radishes, cabbages, celery plants, asparagus, etc., and especially in early spring.

Millet.—G. C. D., Bowelle, South Dak., asks: "Is ground millet seed injurious feed for horses?"

REPLY:—Millet is supposed to bring on disorders of the kidneys if fed in large quantities. There is a prejudice against millet or a notion that it is injurious, which we do not believe well founded. It is a rich food and should be fed in moderate quantities. When fed properly we do not think there is any danger. Overfeeding corn is equally dangerous.

Raising Celery Plants,—D. W., Pottsville, Pa., writes: "When is the best time to plant celery seed in a hot-bed, and how warm should the hot-bed be kept?"

REPLY:—There is no need of using a hot-bed at all. Early in the spring prepare a fine, mellow seed bed in very rich garden soil. Sow the seed in shallow drills about one foot apart. Firm the soil with the feet. Thin the plants, and keep the soil loose and mellow and free from weeds. Mowing off the tops of the plants once or twice will make stocky plauts.

Renewing Clover Sod.—C. C. L., Old Fort.

Renewing Clover Sod.—C. C. L., Old Fort, N. C., writes: "I have a piece of level, rather loamy land, with enough sand in its compositiou to make it work nicely, and it has been in clover two years up to next spring. It has been slightly tramped by a calf being kept on it last fall. Would a coulter, run through the patch, about a foot between spaces, injure or be a benefit to the clover? The coulter would be something like an inch-thick iron bar run edgewise, having a three-inch foot so constructed that the ground is not roughed up much on top, and runs about eight inches deep.

deep.

REPLY:—Clover is a biennial plant, and it is seldom profitable to leave the sod more than two years. Do not think your plan would do

any good.

Gas Lime.—T. G. B., Clarksburgh, W. Va., asks: "What value has gas lime as a fertilizer? If valuable, in what quantities should it be applied? Is it good to put in the hen-house?" REPLY BY JOSEPH:—Fresh gas lime contains substances that may prove injurious to the crops (such as sulphide and sulphite of lime). If exposed to the air, these substances become harmless; but the whole substance, then, is nothing more than a mixture of carbonate of lime and sulphate of lime (chalk and plaster). Wherever it is advisable to use that, you may use gas lime that has been well aired for a time. The fresh gas lime may be safely used in the hen-house, and perbaps to good advantage.

"Chufas—Artichokes.—W. J., McGregor, Ind. Chufas, or "grass nuts," grow just under the surface of the ground and are readily found and greedly eaten hy hogs. They are said to be profitably raised in the Sonth for feeding hogs. The seed catalogues will give

you directions for culture. You can get them, and artichokes also, from the seedsmen who advertise in this paper. Plant and cultivate the latter just about as you would potatoes. They are very productive, yielding several hundred bushels per acre. Hogs are fond of them, and will dig the artichokes for themselves. Turn them in about the middle of September.

Nitrate of Soda for Wheat.—T. Y. B., Allenwood, Pa., asks: "Will it pay 10 put nitrate of soda on wheat in the spring? How much should be applied and when? Where can it be bought and what does it cost?"

REPLY BY JOSEPH:—Nitrale of soda is at least worth a trial for wheat. Put a hundred pounds to the acre, and apply just as soon as the ground has thawed out. It can be bought of any large fertilizer firm near the coast; but prices have greatly advanced on account of the revolution in Chili. We may not be able to get it at much less than \$60 per ton this year, while the usual price for the last few years was only in the vicinity of \$45.

VETERINARY.

*****Conducted by Dr. H. J. Detmers.***

Veterinarian of the Ohio Agricultural Experiment Station, and Professor of Veterinary Surgery in Ohio State University.

To regular subscribers of Farm and Fireside, answers will be given through these columns free of charge. Where an immediate reply by mail is desired, the applicant should enclose a fee of one dollar, otherwise no attention will be paid to such a request. Inquiries should always contain the writer's full address. Queries must be received at least two weeks before the date of the issue in which the answer is expected. Subscribers may send their veterinary queries directly to Dr. H. J. Detmers, 35 King Avenue, Columbus, Ohio

Stringhalt.—Mrs. R. F.,—, writes: "I have a horse that is stringhalted in hiud leg. What can I do for him?"

ANSWER:—Nothing.

Running Sore.—R. W., Clearport, Ohio. First examine and clean the sore, and if you find it deep and ulcerous, dress it twice a day with iodoform, or if it is only superficial, apply two or three times a day a mixture of equal parts of lime water and olive oit.

Warts.—G. B. C., Poynette, Wis., and I. M. P., Cambridge, Neb. Such warts as you describe sometimes disappear without any treatment whatever. For further information I refer you to the answers given to all kinds of "wart" inquiries in nearly every issue of this paper.

Swine Plague.—C. J. O., Urich, Mo. Swine plague or so-called hog-cholera cannot be cared by medicines. The only treatment that can do any good consists in good hygiene and strict separation; the latter in the fullest meaning of the word. Of course, separate the healthy animals from the diseased ones, and not vice versa.

not vice versa.

Nonsense.—G. K., Billings, Mo., writes:
"The men who keep stallions around here tell
us, when breeding mares, not to feed them
clover or clover hay and other things, saying
it prevents the mare from breeding. Is there
any truth in the matter?"

Answer:—The man who says so either
wants to fool you or is a fool himself.

Corns.—C. C. B., Atlanta, Tex. Corns may be
caused by any interference with the mechanism of the horse's hoof, consequently by improper shoeing, too much paring of the
quarters, and particularly, by allowing the
shoes to stay on too long. The treatment consists in cutting out the diseased parts, in protecting the sore spot against undue pressure,
and then, in avoiding the causes. In most
cases of corns the farmer is much more to
blame than the blacksmith.

Bleeding From the Nose.—E.S., Kainier,

Bleeding From the Nose.—E.S., Kainier, Oregon, writes: "I have a mare that often bleeds at the nose. She seems to be well and eats heartily. Wheuever her nose bleeds she has difficulty in getting her breath."

Answer:—Your mare needs a careful examination by a competent person. She either has glanders, or the bleeding, very likely, is caused by a sarcomatous growth (tumor) somewhere in the nasal cavity or in another part of the respiratory passage.

Paralysis.—W. S. B., Blue Springs, Mo.

part of the respiratory passage.

Paralysis.—W. S. B., Blue Springs, Mo., writes: "What is good for paralysis in horses? I have a filly that was taken last May. She was so bad then that she could not get up when she was down. She is better now and can get around very well. Will she outgrow it? She will be two years old next spring."

Answer.—Paralysis may have various causes, and in individual cases the treatment must be adapted to its cause and to the peculiarities of the case. There is no specific that can be applied in all cases.

Chronic Mastitis.—A. H. D. Westerly R.

can be applied in all cases.

Chronic Mastitis.—A. H. D., Westerly, R. I., writes: "I have a cow six years old, which for three years has given mc much trouble. Shortly after she begins to make bag, her bag commences to cake or swell, and by the time she calves her hag is in bad shape. I have to work on it a week or two before calving, and longer afterwards. It seems as if it must certainly burst, being as hard as possible for flesh to be. When she is dry she has a small bag, but when in milk she carries a very large one. Is there any preventive for this?"

Answer:—You surely cannot accomplish anything by giving medicines. If good hygienic treatment and regular and frequent milkings are insufficent, the best you can do will be to fatten the animal and send her to the butcher.

Blood-Poisoning.—J. G. B., Spencerville.

Blood-Poisoning.—J. G. B., Spencerville, Md., writes: "Several weeks ago my mare appeared suddenly very stiff in the right fore sboulder and very much swelled in the breast and all along the belly. She did not lie down and it was with difficulty she could step at all. I had her rubbed with a liniment made of eggs, turpentine and vinegar. This took the hair off after some time, and she got but very little better. There was a hard, scabby sort of place under the belly, just about where the belly-band comes. Her stiffness has disappeared, but the sore place has increased to about the size of three hands, or nearly so, and looks red and raw in spots; in others has a honey-combed look and seems to run matter. It is not all a clear sore, but in round spots. We have put only clean lard on it."

Answer:—I have a faint suspicion that the horse was, for some time, never cleaned where the girth lies, that dirt and mud were allowed to accumulate and to make the skin sore, and that from that sore the blood-poisoning proceeded. Leave off all grease and greasy ointments, have the sores thoroughly cleaned and then dress them twice a day, with a good antiseptic—iodoform, for instance. At the same time see to it that the stable is kept scrupulously clean.

Mange.—M. G. W. East Sandy Pennsyle. Blood-Poisoning.—J. G. B., Spencerville, Md., writes: "Several weeks ago my mare ap-

ulously clean.

ulously clean.

Mange.—M. G. W., East Sandy, Pennsylvania. Mange is easily enough cured. if only the application of the remedy or remedles is a thorough one, and the necessary precautions to prevent a reappearance of the disease, by killing or destroying all the mange-mites, wherever they have been deposited, are taken. A good wash with a tobacco decoction, re-

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pcated two or three times, at intervals of five days, will surely accomplish a cure, particularly if before the first application all the scabs and crusts are removed by a good wash with soap and warm water. At the same time, or rather each time a wash is applied to the animal, the premises where the latter is kept, and also the stable utensils, harness, blankets, etc., must be thoroughly cleaned and disinfected. If the latter is not doue, the disease will, sooner or later, surely make its reappearance. You probably will succeed best if you entrust the superintendence of the treatment to a competent veterinarian. inarian.

wants to Feed Boiled Potatoes.—J. C. W., South Sudbury, Mass., writes: "I am now feeding meal and shorts, one quart each, morning and night and two quarts of oats at noon, to a driving mare, sixteen years old, that is used very little. Have always moistened or scalded the meal and shorts. Would it be better to feed them dry, and if so, why? Would boiled potatoes be injurious to a horse, if fed regularly, with grain, twice a day, one quart at a feed?"

Answer:—Good potatoes constitute at present a very expensive food, in fact costs much more than their nutrient value amounts to, and after all are a poor substitute for grain, especially for an old horse, and damaged or poor potatoes are injurious. Oats are much better. If your mare is used to moistened food, you will have to continue the moistening of the meal and shorts.

Milk Sand.—C. B. M., East Branch, N. Y.,

Milk Sand.—C. B. M., East Branch, N. Y.

Milk Sand.—C. B. M., East Branch, N, Y., writes: "I have a young cow that has kernels or crystals in her teats, one of which I enclose herewith. They are loose, and obeying the force of gravity, drop to the bottom, closing the orifice of the teat, thereby rendering it impossible to milk her in the usual way. There don't seem to be much inflammation of the udder, only secondary, and the treatment for garget does not avail."

ANSWER:—Milk sand and concrements are sometimes produced if the cows receive food too rich in mineral substances, lime salts especially. Their formation is also promoted if the milk is allowed to remain too long in the milk systems and lactiferous canals. The remedy, therefore, consists in frequent milking, and in avoiding food too rich in lime salts; bran, for instance. Very hard water, too, should be avoided. There is no way to remove the sand except by milking.

Discharge From the Vagina—A Stunted

Discharge From the Vagina—A Stunted Pig.—R. A. W.,—, writes: "(1) What shall I do with a cow that discharges a jelly-like substance with occasional spots of blood, sometimes bloody discharges, or mucous with liver-colored spots. She calved three weeks ago. Seems well; milks well. (2) What can be done for eight-months-old pigs which do not thrive. The feed has been bran and middlings, and of late, lots of uncooked sweet potatoes. They have had liberty all summer in a roomy yard."

ANSWER:—(1) Your cow, probably, has not

yard."

ANSWER:—(1) Your cow, probably, has not cleaned. If such is the case, inject first a quart or two of blood-warm water, and then a quart of a blood-warm solution of corrosive subilimate, 1 to 1,500, into the uterus. Repeat this treatment until the offensive discharge ceases. (2) As to your pig, I cannot advise you because I have no means of knowing the cause of its stunted condition. Pigs are frequently in-

fested with intestinal worms, and then, of course, are not thrifty. But there also numerous other causes.

Lameness.—M. W., Lowery's, Cal., writes:
"I have a mare quite lame seemingly in the right fore foot. She holds it up often or rests the toe ou the ground. In walking she limps on that side but moves much as if both sides were sore or weak. The condition came on gradually whilst working in harness. It does not improve by rest. There are no external marks of injury or swelling or shrinking of parts."

ANSWER:—It is utterly impossible to locate

parts."

ANSWER:—It is utterly impossible to locate the seat of lameness in a horse without seeing and examining the animal, unless it is a lameness that shows characteristic symptoms aud these symptoms are accurately described. I advise you to make a careful examination of the animal's foot, and if you do not find it there, examine the parts immediately above.



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There are two sides to every picture, There are two ways to tell every tale, And 'tis weak to give in to misfortune, Though often our efforts may fail. Shall we not love the smiling of April, Because of the teardrops it brings? Oh, this earth would be Paradise nearly, If we'd look at the bright side of things.

The web of our life is in woven With colors-some dark and some gay; Let us sleep through the night of our sorr And awaken when joy brings the day; Highest upon the hill 'tis the bleakest, And care haunts the dwelling of kings, But our lot, if it's lowly, is sheltered-Let us look at the bright side of things.

Good goes through the world masquerading, We know it not in its disguise; What we take for a blank in our folly May turn out, in time, the chief prize. Then let hope be our guide and consoler; Tis in darkness the nightingale sings; Christmas comes in the dead of winter; Let us look at the bright side of things.

THE NUGGET

GRUB-STAKE GULCH.

BY JAMES OTIS.

CHAPTER VII. A POCKET.



MMEDIATELY his scruples in regard to going into partuership with Ned Morey had been argued away, Seth was eager to begin the new line of work as mapped out by the firm. He forgot his own dismal forebodings in the gambler's excitement of digging for gold, and all his former disappoint were as if they had never been known. all his former disappointments

A few hours previous the appellation of "Hammond's folly" had seemed to him most appropriate; but now he believed more strongly than ever that a large amount of the precious metal would be found in the double claim. He failed to notice that Alice was mentally disturbed, although to Ned it was patent; and on his arrival home would talk of nothing else but the newly laid plans for the

"We shall strike a true vein," he repeated over aud over again to his sister, aud she, who shrank from the promisenous love-making such as had already been experienced, said

"I sincerely hope you may not be mistaken, Seth, for there must surely be more inviting camps than St. Julian."

Morey had very little to say on this first evening after the partnership was formed. He fancied that something had occurred to cause Alice uneasiness, and without knowing exactly why, the idea was by no means pleasant.

As a matter of course, the one topic of couversation was regarding the possibilities of the double claim, and even had Alice been so disposed, she did not have a favorable opportunity to speak of Mr. Graut's visit.

On the following morning three men were hired to siuk shafts, and the general opiuiou of the inhabitants of St. Juliau was that the tenderfoot bad begun to spend his money in an almost criminally foolish manuer.

"A baby would have more sense," Mr. Grant said, in a contemptuous tone to one of his customers. "The idee of expectin' to find color anywhere near 'Hammond's folly' is the most ridiculous thing I ever heard of, an' I've knocked 'round the world considerable."

Fortunately for Seth's peace of mind, he did not hear these criticisms. He had invested all his money in the salted claim, and if it failed to produce gold, he would be even worse than a pauper, since Alice depended ou him

It must be said, however, that never did he think of expense in regard to her. She was his sister whom he loved dearly, and anything for her comfort or happiness was the same as if he had spent the money in pursuit of his own pleasure. Nevertheless, the fact remained that if the double claim failed to pay expenses, he was without even so much as would be necessary to provide transportation to some other location, and this in itself was sufficient to plunge him into a fever of mingled auticipation and apprehension.

During the weck which followed the visit from Mr. Grant, Ned Morey appeared perfectly happy and contented. Never ouce did he admit the possibility of a failure, although now the partners were under considerable expeuse, and to Alice's inquiries he invariably

"Don't worry for a single moment. We shall strike it rich some day, and the longer that time is delayed, the more we will have to show for our perseverance."

"I hope so most sincerely; but have you noticed how haggard dear Seth is looking?" she would reply, as if never tiring of hearing Ned say:

"That is because we are coming nearer the golden deposit each day, and you must expect that the strain will tell upon him to a certain

A week elapsed from the day when the part- he did not so much as turn his head.

ners began work on the double claim, and yet nothing had been seen to encourage them in the undertaking. Apparently, they were as far from finding a deposit of precious metal as ou the day when Seth first took possession of his salted property; but Ned had not lost courage. The only uneasiness or annoyance he experienced was owing to the odd manuer with which the inhabitants of St. Julian, and more particularly the habitues of the Palace, treated him.

During his first walk about the town everyone had appeared eager to be on friendly terms with him, and this he attributed to the possible fact that they were trying to atone for the slight nupleasantness under the cottonwood tree. Now, however, the miners passed him by as one to be avoided, although he was not conscious of having given offence to a single person.

On the afternoon of the seventh day after the the proprietor of the Palace had iusisted on caring for his horse, the animal was sent to Dick's cottage, with the following curt note fastened to the pommel of the saddle:

"MR. Morey:-I don't care about havin' strange hosses in my corral, for nobody knows how soon a owner may turn up an' try to make trouble.

JOSEPH GEANT, ESQ.

"Do you think it is safe to ride before your wound has fully healed?" Alice asked, coming to the door just as Ned finished reading the note.

"I wasn't intending to do anything of the kind; but it would seem as if the proprietor of the Palace had made up his mind that I must do so;" and without thinking of the alarm it might cause, Ned hauded her the soiled scrap of paper.

Arriving at the double claim, he was forced to wait some time hefore seeing his partner, owing to the fact that the latter was in the shaft; and when Seth did finally come to the surface, he exlaimed:

"Hello! Have you heard of the news so soon?

"Have you any to tell me?"

"I should say I had. The laborers kuocked off work a couple of hours ago, positively refusing to remain longer in onr employ.'

"Were auy reasons given?" Ned asked, ex-

"I suppose they wanted a loafing spell." "But did they give any reasons?" Ned per-

"Since that was prohably the real cause, it doesn't make any difference about the excuse

given," Seth replied, evasívely. "To speak more plainly, you dou't intend to tell me. Read this note, and then I fancy you will not think it best to conceal anything from me."

Seth glanced at the note hurriedly, looked around to make certain no one was within hearing distance, and then replied slowly:

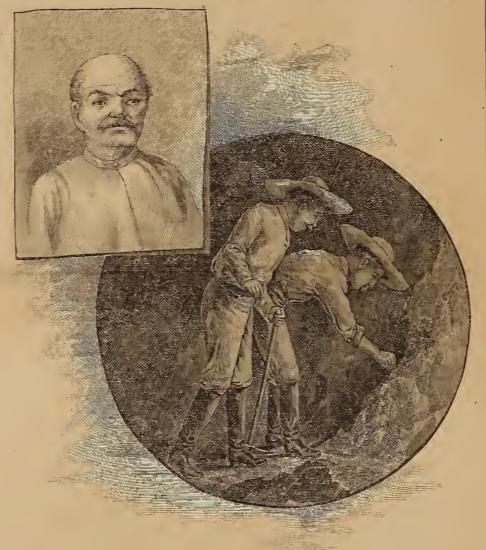
"There's mischief of some kind brewing. They intend to make you leave the towu, I believe."

"That will be rather a difficult task, for I am not frightened so easily. It was because of me that the miners refused to work?"

"That was the sole reason given."

"Why do they want to be rid of me?" "That is exactly what I have been trying to make out," Seth replied, in a tone of perplex-

ity. "I can't even so much as guess." For some moments the partners remained silent, each vainly trying to solve the vexing



"Can it be possible that they still think you | problem, and then Ned said abruptly, as if may have stoleu the horse?" she asked, her face paling as she read the note.

"That is the meaning the words are intended to convey, and they have evidently been written for the purpose of driving me out of town; hut dou't he frightened," he added am not disposed to allow them an opportunity to make much trouble."

"You surely would not think of attempting to defy such lawless men?" And now her agitation was almost painful to witness.

"At all events, I do not intend to run away just yet. Perhaps it would be well to see Seth at once."

"Dou't go now. He will be home soou, and it may not be very safe to ride through the town.

"I assure you, Miss Hammond, that there is no especial dauger; at least, not yet awhile. Do not be frightened. I will come back with your brother in a few moments, and we will decide whether it is best to take any notice of

Before she could interpose further objections, he was in the saddle, riding swiftly away, while she remained with bated breath, listenlng for the sounds which would betoken an

No attempt was made to prevent him from going where he pleased. He rode directly past the Palace, on the veranda of which were Mr. Grant and a select circle of friends; but the only demonstrations made were such as might be gathered from scowling glances and certain slight gestures, showing that they were conversing about him, It had been several days since they had returned his salutes, therefore

the matter was decided in his own mind:

"Is' there anything to prevent my seeing what has been done? Inasmuch as I am half owner of a mlue, I would like to say that I had at least been down the shaft."

"Picket the horse and I'll lower you in the ly, noting how great was her alarm. "I bucket," Seth said gravely, for the hostilities, the disposed to allow them an opportunity which it might be said were already begun "Why they wish the said were already begun". against his partner, caused him the most serious appreliensions. "There isu't much to be seen, I'm sorry to say."

It appeared as If Ned resolved to think no more of what had happened. He seemed to be in the Jolliest possible mood; joked about the price that had been paid for a "hole in the ground," and said laughingly, as he stepped into the huge bucket used to bring the gravel to the surface:

"It is an old proverb that 'Providence watches over children and fools;' therefore, who knows but that I may make the lucky strlke you have been working for so very

Seth made no reply. He lowered his partner to the bottom, and then desceuded the rope hand over hand, to where a cross-shaft had been begun.

"What do you think of it?" he asked, when Ned's cycs were sufficiently accustomed to the gloom to permit of his observing closely the surroundings.

"It doesn't look very promising, for a fact. Why are you digging in this direction?

"To strike through into your claim. It is possible something might be found between here and there."

"Do you still have hope?"

"Yes; most decidedly. We know the surface indications are favorable, and, besides, think

of what has been discovered in the juimediate vícinity.'

Then we will work it alone if the miuers refuse to take our money. I am now in condition to do my share of the lahor, and we will show the Gulchers that it isu't such an easy matter to scare a fellow."

As he spoke, Ned lifted the pick to prove that he had fully recovered his strength, and struck a vigorons blow at the side of the shaft a short distance above the floor of earth. iron point tore away a large portion, allowing the strata immediately over it to desceud, uutil there appeared to be great danger they would be buried beneath the crumbling mass.

"Swarm up that rope!" Seth shonted, excitedly. "There is no time to lose, for no one can say how much of this stuff may fall!"

Before Ned could extricate his feet from the loose earth in order to obey-for the bottom of the shaft had been covered to a depth of fifteen or twenty inches-the danger was past. The gravel ceased to fall, and Seth said:

"There is no reason now why we should hnrry: for a few seconds it looked as if our expensive hole in the ground would soon be filled up; hut everything can be made secure with a timber or two. The next time you propose to show your strength it would be a good idea to work where no great amount of damage can be done."

"I've made rather a poor beginning toward helping yon; but the mischief can soon be repaired. If you will get to the snrface on that rope, I'll fill the bncket."

"That is the hardest part of the work; therefore, you must attend to the windlass. I'll-"

Seth ceased speaking very suddenly, and leaped toward the opening in the side of the shaft from which the earth had fallen.

"What is the matter now," Ned cried. "Is it necessary to hold that wall up with your hands?"

Seth was silent for several seconds. Then he rose to his feet, trembling like one in an ague fit, and extended his hand, in the palm of which was a dull, yellow mass, bearing a strong resemblance to a rudely-carved Greek cross, measuring about four inches from point to point.

Leaning forward eagerly, not one whit less excited than his companion, Ned whispered. "Is it-is it-"

"Gold!" Seth shouted, trying to cover the precious lump with his trembling hands, as if afraid others might see it. "That blow of yours, which promised to do so much mischief, was a lucky one for us. We have struck a pocket, and now there is nothing more to be done but pick up the nuggets. We shall surely find more."

Then, hardly conscious of what they did, the two men stood mutely gazing at the dull metal as if it was something sacred, until Ned said with a nervous laugh:

"It is fortunate those miners kuocked off work, for now we can keep this a secret."

These words recalled to Seth's mind the fact that the inhabitants of St. Julian had virtually given his partner notice to leave the town and the situation seemed more serious than before. Two hours previous he could have taken his departnre joyfully, providing it had been possible to sell the claim; but now both must remain, even at the risk of an encounter with Conestoga Joe and his friends.

"We must decide upon some plan," he whispered. "You cau't leave, no matter what they try to do."

"I am certain that I won't," Ned replied stoutly. "It is nearly sunset; let us go home, tell your sister the good news, and talk the matter over."

Seth wrapped the nugget in his handkerchief, placed it in his bosom carefully, and then went up the rope hand over hand, Ned following immediately after.

CHAPTER VIII. FORMAL NOTICE.

It was necessary Alice should know all that had occurred, and the joy caused by the good news was quickly dispelled by the stand the

"Why they wish to drive him away after all appeared to he so friendly, is something I fail to understand." Seth said, when the excitement of the party had subsided sufficiently to admit of rational conversation. "Are you sure you have said nothing to give offence,

"Positive," Morey replied; and then glancing toward Alice, whose cheeks were flaming red, as she began to have a suspicion as to the cause of the sudden enmity, he added, "It won't pay to spend time searching for the reason of the trouble. They will hardly dare to shoot me in cold blood, for there are enough honest men here to preveut them from downright

Seth made no reply. He realized only too

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well how easy it would be to provoke a quarrel when the use of a revolver would be considered justifiable, and felt positive his partuer was in no slight danger.

"We will search for the remaining contents of that pocket," Ned continued, as Seth remained silent, "and it looks very much as if we might find more of the same kind."

"Why not sell the claim and buy one somewhere else?" Alice asked. "It would not be difficult to get a good price, since you know gold is there."

"That would be foolish," Ned replied, quickly. "Who can tell but we have struck it very rich? We must take fortune at its flood, Miss Hammond."

"While you two are discussing matters, I'll have a turn around to see if your horse is safe," Seth sald, as he went toward the door. "It isn't impossible but that some of these highly respectable inhabitants might run him off."

Since this was only a natural thing for him to do, neither Alice nor Ned interposed any objections, and he closed the door behind him; hut instead of going in the direction where the steed had been picketed, he walked rapidly toward the Palace.

Mr. Graut's establishment was literally crowded with customers when Scth entered and tried to make his way toward that portiou of the room where the proprietor stood receiving the guests, whose money was the only recommendation to hospitality.

Nearly everyone had a cheery word for Seth as he passed slowly along; but several coupled with it the question:

"When is that tenderfoot goin' to light out?" To these last Seth made no reply; he had come to the Palace for a special purpose, and could not afford to waste his time on such citizens as had little or no influence. Not uutil he was iu front of Conestoga Joe did Alice's brother come to a standstill, and then the owner of the establishment shouted:

"Well, I'll be blowed if Seth hasn't called to see how we're gettin' along, boys. I 'lowed the tenderfoot had told him he mustn't come where so many coarse men would be found; but now that he is here, we'll show our 'preciation of him. Step up, gentlemen, an' have one with the house in his honor."

Such an invitation was never made in vain to the habitues of the Palace, and each one seemed to consider it necessary to accept with the greatest possible amount of noise. They crowded around Seth with the most extravagant demonstrations of friendship, and he, thinking only of the purpose for which he had come, departed from his usual custom so far as to join them; but the subsequent invitations which poured in from different parts of the room were unheeded, as he said in a low tone to Mr. Grant:

"Joe, I want to talk with you and Bill, but don't care to do it where this crowd cau hear every word we say."

"I'll fix that part of it," Mr. Grant replied, affably; and theu, without the slightest show of ceremony toward his guests, he elbowed his way into the "office" at the rear of the saloon, where Big Bill and Seth finally succeeded in following.

"What's up?" the proprietor of the establishment asked, when they were "far from the madding crowd." "I kinder 'lowed by the way you spoke, Seth, that you had something serious on your mind."

"So I have, and I want a plaiu talk with you, whom I believe to be my friends."

"Bet your bottom dollar we are, 'an there won't be any chance of losiu'," Bill said, em-

"Then you can have no objections to telling me why all hands are down on Ned Morey without cause. He is my partner, and as such, what concerns him concerns me, and I want to know what has happened. After trying to lynch him, you did the square thing for two or three days, when suddenly his horse is sent back with a note in which he is virtually called a thief, and at the same time those whom I had employed quit work hecause they will have nothing to do with hlm."

Bill coughed and looked at Mr. Grant.

Mr. Grant coughed and looked at Bill. ringly 1 until the proprietor of the Palace, shifting about uneasily in his seat, finally said, with a

pompous manner: "The amount of the story is, Seth, that we've come to the 'clusion as how it'll be best for St. Julian if the tenderfoot lights out. We dou't want them kind of cattle 'round here,

an' you onghter know why." "But I don't," Seth replied, quictly, "and it is for the purpose of learning the exact reason that I came here to-night."

Again did Mr. Grant appear confused, as did Bill also; but the former succeeded, after several attempts, in saying:

"In the fust place, we've got to look out for the town, now that the boom has struck us, an' sich as he is likely to hurt business."

"Why? He is a reputable citizeu: has money with which to make investments, and is just the kind of a mau you need."

"Look here, Seth;" and Mr. Grant assumed a fatherly toue. "You've kinder let your feelin's get the best of judgment. Take my word for it, we can't afford to have him here, an' while we set a pile on your sister an' you, he's got to go. We've hinted to him, an' now give you formal notice that there'll be trouble If he's in this 'ere town two weeks from to-day."

"Do you think a man will be driven away after investing his money in laud? If you ex-

pect a hoom when people are not to be allowed the privilege of holding what they've paid for, you are making a big mistake."

"He bought the claim from a greaser, an' sich bargains dou't go. All the boys think the same as we do, so there's no call to say anything more."

"It's an outrage," Seth replied, angrlly. "He is the one who has been injured during his stay in this place, and you should try to atone for the disgraceful scene under the blg cottonwood. If, however, you insist on this 'formal notice,' as you call it, I will take the warning as a personal matter, and if he is obliged to skip, I'll go with him."

"What about your claim?" Bill asked un-

"There is no guarantee that It won't be virtually taken away from me, as you propose to do with his; therefore, the sooner I gct out of towu, the better it will be;" and Seth allowed his anger to become apparent.

Mr. Grant's vnluerable point was the town of St. Juliau, and anything reflecting on it he considered personal; therefore Seth's argument had great weight.

"I reckon we've got as much sand as most folks, an' although the tenderfoot's claim ain't worth a cent more'n yours, we'll pay him what it cost, so's there shan't be any reason to

"That is a very generous proposition after we have struck it rich," Seth replied hotly, forgetting in his excitement that the discovery of the nugget should have been kept a secret.

"What?" Bill screamed, leaping to his feet in amazement.

"We took out a four-pound nugget this afternoon, after the men left ns, and you can fancy whether there are any more in the same place."

"You got four-four-"

"Exactly," Seth said quietly, as Bill stammered because of a flood of surprise and regret that he had taken so much trouble to salt what was in reality a valuable piece of property. "We have four pounds of pure gold, a bigger lump than can be shown from any other claim in this section of the country, and after a large amount of money has been spent to develop the property, you generously propose to give Morey the same price he paid for what, at the time, was supposed to be value-

"When did you find it?" Mr. Grant asked, breathlessly.

Seth related all the details of the discovery, concluding by saying:

"But for Morey I would yet be a pauper, unable to leave this town because of having sunk my money in a piece of ground which Bill did not believe to be worth a cent, although he received five hundred dollars for it. Now, do you suppose I'll sit down quietly and let you drive him off?"

"I'll buy his share of the claim," Mr. Grant said, quickly.

"Would you like to have it known that in order to get possession of a valuable piece of property you began by ordering the owner to leave town?"

"See herc, Seth," and here the proprietor showed the most decided signs of anger, "I'll take a good deal from you, hut don't go too far. You know the warnin' was given before we heard about the nugget, consequently there can't be anything crooked in the matter. Morey has got to skip, and that settles the story. We'll give him two weeks to get ready, an' after that St. Julian will be a mighty unhealthy place."

Seth made no reply. He understood that it would be useless to do so, and also realized the mistake made in disclosing the secret of the

After waiting a moment to learn if Bill had anything to say, he left the office, made his way with difficulty through the crowd of revelers, and walked slowly toward his own

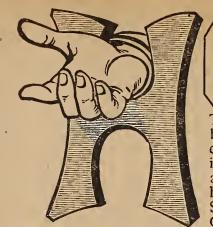
He had not been absent from the house so long that there was any reason for making excuses, either to his sister or partner, and when these two latter retired, it was to dream of the wealth which both believed would come from the double claim.

On the following morning, when Ned went to work with Seth, he found the shaft surrounded by a throng of eager miners, all of whom greeted Seth warmly, but refused to acknowledge his salutations. The story of the nugget was known to all by this time, and in response to their entreaties to be allowed a glimpse of it, Seth referred them to Alice.

"She will show it to you," he said; and a party of twenty started at once for the house to view the "Nngget of Grub-Stake Gulch," as Limpy Jake had already christened it.

Those who remained did so for the purpose of buying the claim, and during the next hour Seth received many tempting offers. The most persistent of these would-be purchasers was no less a person than Mr. Joseph Grant. He had visited the shaft at a very early hour, descended at considerable risk, owing to his rheumatic and asthmatic tendencies, and picked up a nugget weighing half an ounce, which, by the way, he did not consider there was any good reason for delivering to the rightful owners. With this tangible proof of the correctness of Seth's story in his pocket, he could well afford to delay seeing the golden eross in order to purchase the property.

"I'll give you five thousand dollars in hard cash," he said, as Ned was lowered into the shaft, "an' it's a mighty good price, cousiderin'



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that you may never find any more. I've heard of nnggets turnin' np where there wasn't enough left to put in your eye, au'yon oughter take that into consideration."

Please state where you saw this advt

Seth did not feel warranted in refusing this offer. He was by no means confident that they were any nearer a true vein than hefore, and the amount was more than sufficient to repay for hoth the outlay of time and money.

"I will talk with my partner, and let you know to-night," he said; hut further than that he would not commit himself, despite all Mr. Grant's enfreaties.

Disappointed at not obtaining immediate possession of the property, but yet hopeful of doing so, the proprietor of the Palace walked homeward, meeting Big Bill at the entrance of the alleged palatial saloon.

"I've seen it," the latter said sadly, "an' it shows what a fool I've been. I played Seth for a tenderfoot, an' got left."

"They've strnck it rich, for a fact; but if we deal our cards right you won't lose so much. Then Mr. Grant told of the offer he had made, and concluded by saying:

"We've worked the thing in style so far, an' by keepin' it up, Seth is bound to sell. Instead of allowin' Morey two weeks to get out of town, we must make it two days, an' then he'll be glad to close up his share of the claim."

"Seth will show fight if we try a game of "Seth will show light II we try a game of squeezin', an' you know as well as I do that more'n half the hoys count on him as bein' dead square. I'd like to take my chance with you of marryin' his sister, hut ain't fool enough to get my neck into a sling."

"I'm sorry you're weakenin', but reckon it won't be a hard job to work this thing—"

"I ain't wcakenin'," Bill cried, angrily.
"Show me half a chance an' I'll go as far as you."

"Show life harf a chance of you."

"Come 'round here to-morrow, an' I'll give you a few points that'll be worth considerable."

Mr. Grant said, with an air of mystery; and Bill walked away muttering:

"It's all very well to figger up what might be done, pervidin' things worked 'cordin' to the programme; but buckin' agin Seth Hammond ain't sich a snap as he reckons on."

[To be continued.]

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Our Household.

LIFE'S STRUGGLE.

BY E. W. P.

We are striving all for victory On the battlefield of life, And tho' the spirit weakens, We must still keep up the strife. From foes without and foes within, God makes us conquerors of sin! The foes which us assail without, Are but a small array. To those within, a mighty host, That threaten us each day, Till contentment seems a foreign word, Whose meaning we have never heard. Of all the motley throng, I deem Base Envy leads the van, And goads us on with whip and spnr, Through all life's little span. So prone to view our neighbor's lot As something better than we have got. Perhaps, if we could know the facts About our neighbor's case, We would not feel one envious pang Nor wish to change our place. Each heart hath its own bitterness Full measure given, be sure of this. Anticipation of life's ills Fill all our days with worry; We cross the bridge ere it is reached, As in the olden story; We dread the future's woes untold, And this lose all the present's gold. We reach afar for happiness, With sighs and tears galore; Erstwhile the gentle maiden stands And knocks at our back door, Thus proving that in humble joy Is love and peace without alloy. God never meant that all our woes Be crowded in one day, Nor will the burden greater prove Than we can bear, alway,
If trusting in the God of prayer, We give each hour its proper share. E'en the manna in the desert Was sent for every day, And so we must our lives conform; There is no other way. Fresh strength be sought for every task. And that is all we need to ask. One by one the sands of earth Slow drifting into mountains are; One by one the sands of life Float out beyond the harbor bar; Let each one bear a message bright Of duties done and deeds of right.

HOME TOPICS.

COOKING POTATOES .- I believe I have more trouble in teaching servants to cook potatoes than with any other article of food. In the first place, they all think they know how to cook potatoes; "jnst pare the skin off as thickly as possible, and boil them;" or, if they are to be baked, "rinse them in a little water and put them in the oven." They do not seem to have the least idea how long they ought to be cooked, and they almost invariably boil them too long.

The skin of a potato ought to be taken off with as little of the potato as possible. Put them into boiling water with a teaspoonful of salt, and let them boil a half hour for medium-sized potatoes; smaller ones will be done in twenty minutes. Just as soon as they are done, drain the water off and uncover them for a minute or two at an open window or door, to make them white; then mash them if they are to be served in that way. A wire masher

is good, but I

like best the

press, as there

cannot be any

left after

they are put

through that. I have had

girls put the potatoes on

the stove an

hour before

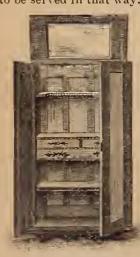
dinner time

and let them

boil until all

the best part of

the potato



minute they are done.

HOME-MADE CABINET WASH- that they had STAND, OPEN. not pared away, would be boiled out and drained off in the water, nothing but soggy, tasteless lumps remaining. When potatoes are to be baked, they should be well washed-a little brnsh is best to clean them-baked in a rather quick oven, and eaten the

CREAMED POTATOES .- Mash the potatoes and season them as if for the table, but add nearly twice as much milk as usual and the whipped white of an egg. Put them in the dish in which they are times they feared she would not live.

to be served, rounding the top, and set them in the oven for five minutes.

GLAZED POTATOES .- Peel good-sized potatoes and let them boil fifteen minutes; take them out of the water, put them on a pie-tiu, spread a little butter over and brown them in the oven.

LETTING BABIES WALK TOO SOON .-Young mothers often make the mistake of hurrying their babies to walk, and lasting injury is frequently wrought by not letting the child first creep and then walk, in nature's own way and time. A child ought to be allowed to take its own time to begin to walk, and this will not often be before it is twelve or fourteen months old. Even then do not allow it to walk very much for two or three months. Frequently mothers do not like to have their babies creep, as they soil their clothes so badly, and will begin to stand them on their feet and try to have them walk long before their bones are hard enough to have any strain put upou them, and the result is bow legs or crooked ankles, which sometimes the utmost care afterwards will fail to straighten.

When a grown person leads a little child he ought to be very careful not to strain the little arms. I have seen thoughtless persons lift a little child by one arm, and swing them across a gutter or over some obstruction when walking on the street; and often they will walk so fast when leading a little child that the little one is

a physician; but ever since she has suffered from a nervous affection which causes her lips and lower jaw to tremble whenever she opens her mouth. She says there is no doubt that this affliction was caused MAIDA McL. by that fright.

DON'T TALK.

It doesn't pay to do much talking when you're mad enough to choke,

Because the word that stings the deepest is the one that's never spoke;

Let the other fellow wrangle till the storm has blown away,

Then he'll do a heap of thinking 'bout the things you didn't say.

CABINET FOR TOILET PURPOSES.

This very useful article which we present to our readers, will commend itself to everyone who wishes to do away with these toilet articles in a room which must serve for a living room and bed-room as well. It will also be a pleasing undertaking for some of the boys just beginning in woodwork to construct for their own use.

It can be made in frame work, carving the frames and putting the panels in of China silk or cretonnes. In this one, the panels are made of wood and ornamented with poker work. The dimensions are four and one half feet high when closed, two and one half feet across the front and one and one half feet deep. A narrow shelf going around the top will hold any jerked and dragged along in not only a toilet bottles; two sets of drawers under-

> neath, two small and one long, will hold brushes and towels, and a shelf below could be utilized for shoes.

Made even of the very plainest material and adornments it could become a very useful article. These adornments of home, made by the hands of one of our dear ones, are always cherished beyond everything.

CHRISTIE IRVING. WHITEWASH.

The time for spring cleaning-up is nearing. While the weather is too cold to do much with the honse, the yard and garden can be put in the best of order. Beds fixed up ready for the early plantings, whitewashing done to get ahead of the vermin that will hatch out as soon asthe warmer days begin to come. Experienced people say that much of the vermin could be destroyed if taken

while iu the egg

If the closets are thoroughly cleansed from the following recipe:

One half bushel of good lime, five pounds of rock salt, dissolved, one half pound whiting, four pounds ground rice, boiled to Not long ago, I heard a lady tell to some a thin paste, one half pound clean grease. with hot water, keeping the box covered that it will flow freely from the brush. If less when dried. The above is for outside ing without a light, but her mother said: work. For indoors, slack the lime as above, "Leave the door open, Carrie, and you omitting the salt, grease and rice. Instead water, use skim-milk. This latter is a secret worth knowing.

> If a wall has been whitewashed, it will have to be scraped, and sized with a weak solution of glue, before putting paper upon it, as it will not hold. It is not advisable to paper a kitchen, as the steam from the cooking will cause it come off. The best way to treat a kitchen wall is to paint it; as it can more often be renewed. A very and a little black. Paint the stems, which

She is now a woman of fifty years, and little vermilion powder put in will tint the wall a very pretty shade of pink, which wears better than white. Any color will soil in a few months' time. A hood over the stove, with a pipe to enter the chimney, will carry off much that usnally settles on the walls. It is an expense at first, but it saves money at last.

A great deal of money goes every year for cleaning up; it seems wasted until we remember that it is highly essential for



DECORATED JAR.

health. March, with its wind and cold, is nature's cleaning-up time. The cold freezes out the bad odors, and the winds blow away much of the trash.

BETTINA HOLLIS.

THE BEST DAY.

That day is best wherein we give A thought to others' sorrows; Forgetting self, we learn to live; And blessings born of kindly deeds Make golden our to-morrows -Rose Hartwick Thorpe.

DECORATED JAR.

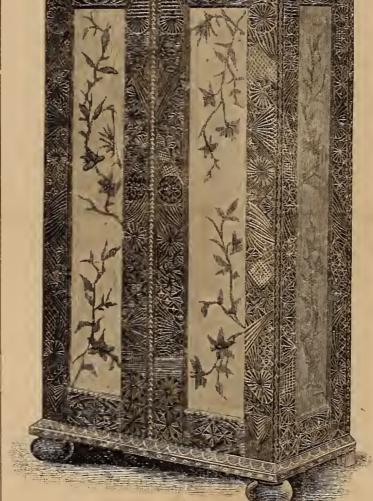
The little jar given in the illustration was bought at the grocery for twenty cents; but not the jar alone. It was full of delicious strawberry jam; perhaps not delicious to fortunate country folks who raise their own berries and make their own jam; but a town woman who "takes her meals out," at least her dinners, and for the rest does "light housekeeping," will make a very good lunch with bread and butter and such jam as comes in these little jars. My pantry has accumulated quite a number of them, empty, and it occurred to me that they had decorative possibilities. The size of each is a trifle more thau four inches in height and three and one half inches in circumference. They are a coarse grade of iron-stone ware, glazed within and without, except the bottom and the top rim. Where it is glazed, the color is a warm cream, and the unglazed rim is quite yellow. In short, the jar is pretty. The shape is good. Simplicity in form is a thousand times better than foolish little twists and turns, corners and crinkles.

In these days, a woman without a box of paints is almost as rare as a woman without a pin-cushion. My paint-box in the closet, and my empty jam-jar in the pantry, gave me mutual suggestions. The result you may all copy; or, what is better, take as a hint from which you eau start out on an original track.

Two very pretty flower bands are given, of a proper size to transfer to the jar, and oh, joy! The little jar has such a roughness of surface that by laying on it a new design on top, by going over the outlines with a sharp point (lead pencil will do), the whole flower-band will be distinctly traced on the jar! This is a great help to make the painting casy.

It will be a good plan to use something in the paint to give it as high a glaze as is on the jar. If you have siccatif, use that; if not, get five cents' worth of Japan at the drug-store and mix it with your paint jnst as though it were oil. Now, if you get a dime's worth of gilt (there is a preparation comes with the Diamond dye packages), you will be ready to decorate your jar in fine style.

Paint the roses with a light but gay shade of pink made by mixing white with madder lake, or geranium lake, whichever you happen to have. Paint the eenters with delicate green, outlined with burnt sienna. The stamens paint light yellow, with little touches of burnt sienna to make them effective. The dark ground behind the roses make a very dark green; make it with a little white, Antwerp or Prussian blue, yellow oehre, burnt sienna



HOME-MADE CABINET WASH-STAND, CLOSED.

very uncomfortable way, but one that is | form; March is a good time for this. positively injurious.

FRIGHTENING CHILDREN.—One can and cracks sealed with plaster of Paris, in hardly compute the evil which may result which a little arsenic and some camphor from a sudden fright to a little child. The is used, they will not appear that year, hard lumps most serious results have followed a fright certainly. A good whitewash can be made piece of black transfer paper, and the caused by an older child hiding and suddenly springing out at the little one. Even grown people will do this, just to see the child jump.

> young mothers the story of a fright she Slack the lime in a tight box or barrel, received when about six years old. She said that she was playing with an older that the steam may not escape. It can be brother in the evening, and when her tinted if desired. Slack to the consistency bedtime came, her mother was busy and of thick cream. Thin it when used, so told her to go and prepare for bed. She slept in a room that opened out of the put on too thick, it will flake off more or family sitting-room. She objected to go-

> can see. I shall be sitting here all the of thinning the creamy solution with

So she went, without noticing that her brother had left the room. When she was ready for bed and about to step in, a hand reached from under the bed and caught her by the foot. Her brother had hidden there, thinking to have fine sport frightening her. She gave one scream and fainted, and for days thereafter was in such a state of nervous excitement that at if that is inexpedient, whitewash is better, interlace along the edge of the design, with light, warm green. The long, pointed decorations below the flower-band paint with the dark green which you used for the ground behind the roses.

Now, outline the entire scheme of decoration with a pronounced line of gilt. There, you have a handsome jug, and it cost you next to nothing. It can be used on the table to hold celery, crackers or ginger-snaps. You can call it a bonbon box and set it on the mantel full of homemade candy, from which one may occasionally nibble to keep up his good spirits and sweeten his temper with a sugar plum. If it only had a cover! Can't some one invent a cover?

The year's at the spring And day's at the morn; Morning's at seven; The hillside's dew-pearled; The lark's on the wlng; The snail's on the thorn; God's in his heaven-All's right with the world. -Robert Browning.

A WORD TO THE BOYS.

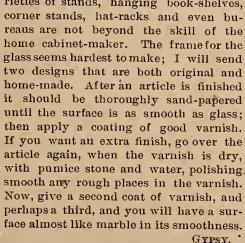
Well, boys, what are you going to do those stormy days that windy old March has in store for us?

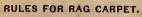
Can't you find something more profitable than sitting by the stove at the corner grocery, breathing air foul with tobacco smoke and listening to rude and rough disagreeable out of doors. Some beys learn to knit and crochet, to pass away spare moments; and I have seen some of their work that would rival their fairer sisters in finish and neatness. Try it, beys, those who think they would like that kind of work. Don't let false pride stand in your way, "'cause its girl's work."

What shall we do with the merry, whistling bey that whittles an accompaniment to his tunes? Active, restless and ready for mischief. Give him a warm corner in the kitchen-or, better, a small room-and let him whistle and let him whittle. A scroll-saw or turning-lathe would be very acceptable here. If that is impossible,

hammer and try your hand at furniture making. There are many articles that can be made at home at half the expense of buying, and if one gets interested in this line of work, he will be astonished to see how simple some of the articles are to be made, when closely examined, and how fast he will improve in their manufacture.

There are many va-





Be sure and wash your rags well before cutting, and sew rags together of the same thickness only.

Avoid, if possible, any coarse rags, such as old pants and coats, as it makes rough carpet.

Never cut the rags around a square piece of cloth, but cut straight through and sew together. When you cut a square corner it leaves a bunch in the carpet, and is easily broken.

When sewing hit or miss, be sure and mix the colors as much as possible.

When winding rags, do not put two or more colors in one ball, as the weaver goes by the outside color, and in a great many cases gets left (and so does the carpet), when all the blame is then put on the

Do not think because you have fifteen or more colors that you are going to have a pretty carpet, for the prettiest carpets contain only from seven to nine colors.

> shade all through, and sew all the others into hit or miss balls.

Rinse the rags well after coloring, or they will be very dusty from the dye and shorten the days of the weaver.

Never use rags from an old carpet that has served its time and has been turned and washed until it ceases to exist as a carpet. After finishing one or more balls of rags, do

not put them in the attic to be covered with dust, food for the moth and a home for the mouse; but take good care and put them where no dust can get to them.

They know you-whether your clothes are good or bad, whether you speak Greek the shoe fits do not blame us, for we had

Do not be surprised when you ask your weaver the size of your rooms, if they do not know, for it is one of their great failings not to know the size of every room in the state. Measure the room yourself and give the exact dimensions if you want it woven to fit the same.

Make your own stripe by winding the rags on a stick as you want it in your carpet, as the weaver may have a different taste and not suit you. Do not expect a ball the size of a hen's egg to go through twenty or more yards.

It generally takes from one to ten years to prepare a carpet, and then it is taken to the nearest weaver and is wanted the same or next day. Do not expect this. You have taken your time, so give the weaver time to cough up some of the dust taken prior to your coming.

A very neat and nice rug can be woven from worn-outingrain carpet by cutting it into strips about one inch wide, ravel out both sides all but a few threads in the center and sew them together as for carpet. When woven, the fringe will come through the warp, covering it com-GEO. W. S., Weaver.

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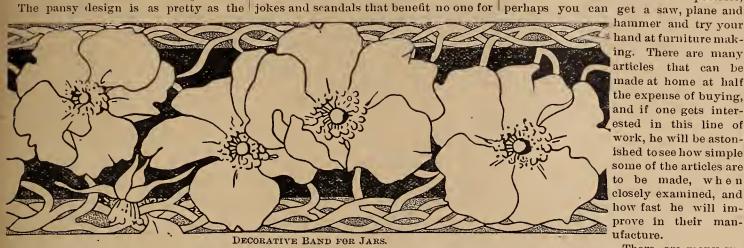
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roses. When a person gets the knack of the telling or from the hearing? Boys, do rieties of stands, hanging book-shelves, painting pansies, she can almost do it with her eyes shut. Let me give you some general directions: Where one petal laps over another, always make the under petal darker. The petal on top make very light at the edge. Follow that rule and your highest lights will always come next to your deepest shades and produce what artists call effect. In the center of each pansy there are always two short, white lines meeting like a caret, so A. These must be white, and the dark spots of color (those spots which make the "face") will come next to these two short, white lines -two at the sides above and one belowand again produce effect.

I said a person might learn to paint pansies with her eyes shut. No, that was saying too much; but there is no flower so casily painted from memory. One touch of color I forgot to mention; that is the bright yellow in the center just below the two short, white lines. The yellow is above the dark marking in the lower petal. If pansies are painted without a background, give them a distinct outline. The color proper for purple pansies is made by mixing white, cobalt blue and madder lake. There is a dark, reddish variety which requires white and burnt sienna mixed. White pansies are beautiful, and need the color which is necessary to shade all white flowers. Some persons use a little black for this purpose, while others prefer a gray, made by mixing red, yellow, blue and white in the proper proportions.

A very pretty jar like the one in our picture is on my neighbor's mantel. She has a decoration of apple blossoms on it. They are arranged in clusters, so that at the top they form points downward, and

not get in the habit of repeating such stories; a woman gossip is bad enough; yes, horrid; but a man gossip is horrid in the superlative degree. An angel's character is not safe in his hands. Let your conversation be clean and wholesome. Leave out the swear words, and if you must use an expletive once in a while, would not "potatoes" do just as much good as some more profane words? I do not believe one would help the real trouble any more than the other; so why use either? Here is another young friend, hunting a warm corner by the kitchen fire, with a ten-cent novel in his pocket; and my boy, just keep it in your pocket, or else burn it up, for such literature is unfit for anyone who wishes to be of any account to himself or the world. It will destroy every inclination for a better class of reading and will injure the memory surely, persistently and permanently. One cannot remember all the details of such a book and a few points are remembered, until the next one is read and that is so interesting you must have another, and another, and another, etc. Your mind is in confusion; a motley crew of cowboys, pirates, giants, Indians, mermaids, beautiful captive maidens and gypsy queens haunt your dreams and play havoc with duties to be remembered and performed in waking hours.

These novels are very productive in another bad habit, that of skimming, which is fatal to the understanding of any good book. One gets so interested in the hero or heroine, they cannot follow the minor characters, but skip page after page in pursuit of their favorite and his hairbreadth escapes. Bad practice. Don't do it. To the literary boy, give the warm at the bottom the points direct upward. corner and his good book; but be sure it is Be careful to have the colors of the same

DECORATIVE BAND FOR JARS.

pointed clusters gilt is splattered in a very ornamental way. A shower of single blossoms of any kind, falling in every possible position, would be a pretty way to paint one. Always make your outlines distinct; that is the secret of effective decorative art. KATE KAUFFMAN.

Anyone can get our new illustrated Cook Book free. Read the offer on another page.

Others have made Fortunes, so can you, with Youman's Dictionary of Every-Day Wants, containing 20,000 Valuable Receipts. Read our offer on another page.

Among the blossoms and around the a good one; something that is worth reading, worth remembering. In this age of progress, there is an inexhaustible supply of information to be gained in study, on nearly every subject one can think of. Mix in a little good poetry from our best authors as a recreation from study; and you will find that you like it twice as well if you read some aloud to the mother or sister who cannot rest on the sofa because it is a stormy day. They can appreciate it just as well as the "other fellow's sister," to whom you could read by the hour. Help make sunshine in the house, though the clouds may hover, gloomy and

We do not need an introduction to the lady who sends rags to us. In a great many cases we do not desire one. A weaver takes a peep into your every-day life when he or she looks at your rags. or Latin. We cast no insinuations, but if nothing to do with the shaping of your

Our Household.

COLORING RECIPES.

In using the following recipes, remember that the goods should always be wet in hot soapsuds before they are put in the dye. The dyes should be thoroughly dissolved and hot. Constantly stir the goods, lifting them up to the air and turning them over.

Brown.-To five pounds of goods allow one pound of catechu and two ounces of alum dissolved in sufficient hot water to wet the goods. Put this in a tin boiler on the stove, and when it is boiling hot, put in the goods and remove it from the stove. Have ready four ounces of bi-chromate of potash dissolved in hot water in a wooden pail. Draiu the goods from the catchu and dip them into the bi-chromate of potash, then back into the catchu again. Proceed in this way, dipping into each alternately until the required shade is produced. This does equally well on cotton, wool or silk.

BLUE (ON COTTON) .- Dissolve four ounces of copperas in three or four gallons of water. Soak the goods thoroughly in this and then drain and transfer to a solution of two ounces of prussiate of potash in the same quantity of water. Lift the goods from this and put them to drain; then add to the prussiate of potash solution one half ounce of oil of vitriol, being careful cellar; am now using them with fresh

of bi-chromate of potash in cold water in a wooden vessel. Dip the goods first in the lead water then in the potash, so contiuning until the color suits. Sufficient for five pounds of rags.

DARK BROWN (ON COTTON). - For ten pounds of cloth take four ounces of blue vitriol, two pounds of catechu and six ounces of bi-chromate of potash. Put the catechu in an iron kettle, in cold water enough to cover the cloth, heat until dissolved; dissolve the vitriol and add it to the dye; put in the cloth and scald it an hour or more. Wring it from the dye; dissolve the bichromate of potash in boiling water in a kettle and put in the cloth for fifteen

As the careful housewife is now looking up the possibilities of a new carpet, we submit these coloring recipes, hoping they may be of service. LAURA NILSON.

GOOD HINTS.

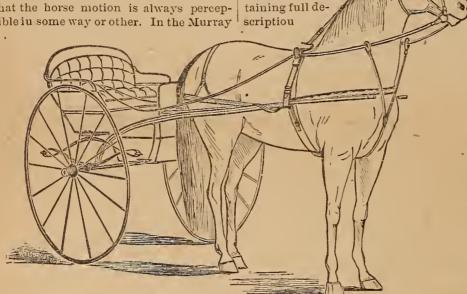
To KEEP Eggs .- Have them perfectly fresh. Take a kettle of boiling water, put half a dozen eggs into a frying-basket and dip them into the hot water. Do not let them remain any time, but be a little slow in dipping. It closes the pores of the shell and makes them air-tight. Last June I packed eggs, prepared like this in a box, with the small ends down-as I think the yelks less liable to adhere to the shell in this position-placed them in the

THE MURRAY "COMFORT SPRING" CART.

Our illustration represents the new Murray "Comfort Spring" Cart, which is mauufactured by the Wilber H. Murray Mfg. Co., of Cincinnati, Ohio. It is claimed for this cart that it rides even easier than a buggy, and is the only cart that is absolutely free of horse motion. The objection to all other carts has been that the horse motion is always perceptible iu some way or other. In the Murray

usefulness, ease of riding and style and the price is a marvel of cheapness. The Murray people make a full line of carts: they are also the manufacturers of the world renowned "Murray" \$55.95 Buggies aud \$5.95 Harness. Write them for their fine, new

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THE MURRAY "COMFORT SPRING" CART.

"Comfort Spring" all horse motion has | and prices of their work. Their address been entirely done away with; it also has is, Wilber H. Murray Mfg. Co., Murray a nice phætou body, as shown in cut, and Building, Cincinnati, Ohio. They sell dihas room under seat for parcels. In fact, rect to the consumer, and do not belong it combines everything that pertains to to the so-called Buggy or Harness Trust.

to pour in a few drops only at a time; stir thoroughly, return the goods, and as soou as of the desired shade, rinse them in clear water and dry. Enough for five pounds.

YELLOW (ON COTTON). - Dissolve one vessel. Dip the goods well and drain in each alternately until the desired shade is secured; then rinse and dry. If an orange color is desired, dip the yellow rags in strong, hot lime water before

GREEN (ON COTTON) .- First color blue, and then dip in the yellow coloring.

TURKEY-RED (ON COTTON). - For four pounds of cloth take one pound of sumac in enough soft water to cover the cloth in a tub; soak over night, ring out and rinse in soft water. Take two ounces of muriate of tin in clear, soft water; put in the cloth and let it remain fifteen minutes. Put three pounds of bur-wood in cold, soft water in a boiler, on the stove; when nearly to a boil, partly cool, then put in the cloth and boil one hour. Take out the cloth and add to the water in the boiler one ounce of oil of vitriol; put in the cloth and boil fifteen minutes. Rinse in cold

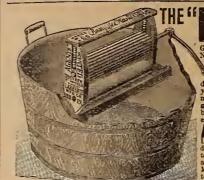
CANARY (ON COTTON) .- Take one half pound of sugar of lead and dissolve it in hot water. Dissolve one fourth of a pound at all times with perfect safety.

ones and cannot see any difference. The whites and yelks separate and beat as light aud quick as the fresh and are equally as good when cooked.

Drippings from pork, beef and even pound of sugar of lead in enough water lamb, can be whitened and cleaned by to thoroughly saturate the goods, and one | melting in water. Put all in a dish and half pound of bi-chromate of potash in add half as much water. When melted, the same quantity of water in a separate strain the first time. After the drippings are cold, take the cake from the water and scrape the settlings off. Melt again in fresh water and repeat till white and clear. Then fry a few potatoes in the fat and it is ready for fritters, croquettes or anything one may wish to fry. If the taste and odor of lard is unpleasant, potatoes, with a little salt cooked in it, will remove both. It will be just as good as the "XXX" that is sold in packages, claimed to be a superior article, at an extra price.

When the buckwheat cakes refuse to brown-as they will at times-sprinkle in a few bread crumbs. Take all the pieces and crusts of bread, dry till crisp in the oven; if they brown a little it will not harm them. Roll with the rolling-pin till they are pulverized. Keep in a jar ready for use. A handful or two will make the cakes perfection if baked on a hot griddle. A CONTRIBUTOR.

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Our Sunday Afternoon.

I SHALL SEE HIM.

I have not seen his face. And yet I know he is, and that his love Fills earth, and is the joy of heaven above.

Yet all around me, every day and hour, I see his handiwork, and feel his love and power.

I have not seen his face. And yet I know him, and I hear his voice Of music, bidding all my heart rejoice.

I have not seen his face, And yet he doth my very being thrill With rapture, as he whispers, "Peace, be still."

And I shall see his face, When carth and darkness shall have passed away.

And I have reached the land of endless day.

Yes, I shall see his face, My light, my love, my master and my king, And of his goodness evermore I'll sing.

-The Treasury.

TO MAKE A HOME OUT OF A HOUSEHOLD. ROBABLY no one feature of the modern æsthetic phase in house furnishings is more conducive to health and comfort, as well as beauty, than the substitution of rugs for carpets. A writer in the Chautauquan for November

"Next, the economy of the rug is fast becoming a matter of experience. While it may cost more than the carpet to begin with, yet the saying in money, time and trouble can be demonstrated. The wear and tear of tacking and untacking need not be dwelt upon, while to this must be added the stretching, as tension on a laid carpet greatly taxes its durability, and the especially vigorous treatment it must receive if beaten only once a year. In considering durability it must not be forgotten that a rug can be turned about at pleasure to equalize the wear and fade, and that escaping all irregularities, such as bay windows, fire-places and registers, it may serve equally well for a succession of rooms, which is certainly a great advantage to one living in a rented house."

The economic side of the question is here sufficiently demonstrated; but even beyond this is that of the perfect cleanliness possible with the rug, and the result in pure air and health. A carpet at best is a storer-up of dust. Then, to the eye educated to the beauty of the polished floor and the rug, the carpeted room becomes a terror. The day is fast approaching when the polished floor and the rug will be the rule, rather than the exception, and with this the terrors of honse-cleaning are largely done away. The dainty cleaning of each day will render largely unnecessary the general upheaval that turns the home into a camp for a week, once or twice a year. That honsekeeping where everything is always done and never doing, is the perfection of grace and comfort.

TRUE CHRISTIAN SERVICE.

Three elements are needed if one is to be successful in Christian service, of course presupposing the new birth, without Which no act can be helpful to Christ's cause.

1. Consecration. This is man's act, as sanctification is God's. Without it, service is cold and formal; with it, there is life and warmth. Without it, selfishness is too predominant and our powers are not brought into fullest exercise for God; with it, selfishness is unknown, and onr sanctified powers-for God always sanctifies what we consecrate—aro increased in value as moral forces. A truly consecrated man cannot be selfish, for the heart of consecration is self-denial, and a placing of one's self utterly in the divine hand. "Who then is willing to consecrate his service this day unto the Lord?"

2. Concentration. There are many Christians whose efforts in the master's service are comparatively barren, because they scatter themselves over too much territory and are trying to do too many things. Humanitarian, literary, scientific, educational, philanthropic, sociological and religious efforts and schemes are a hopeless tangle in their minds, hearts and engagement books. When we broaden the channel of a stream, we lose power and depth, though we gain breadth. Power and depth are more important in Christian service than mere breadth.

3. Constancy. It is not the impetuous our offer on page 194.

man who accomplishes the greatest results. We must be willing to patiently plod along, if need be, with eyes fixed on tho goal.—Messiah's Herald.

A KIND VOICE.

In speaking of the power of kindness, Elihu Burritt once remarked of the voice:

"There is no power of love so hard to get and keep as a kind voice. Λ kind hand is deaf and dumb. It may be rough in flesh and blood, yet do the work of a soft heart, and do it with a soft touch. But there is no one thing that love so much needs as a sweet voice, to tell what it means and feels; and it is hard to get and keep in the right tone. One must start in youth, and be on the watch night and day, at work and at play, to get and keep a voice that shall speak at all times the thoughts of a kind heart.

It is often in youth that one gets a voice or tone that is sharp, and it sticks to him through life, and it stirs up ill will and falls like a drop of gall upon the sweet joys of home. Watch it day by day as a pearl of great'price, for it will be worth more to you in days to come than the best pearl hid in the sea. A kind voice is to the heart what light is to the eye. It is a light that sings as well as shines."-Congregationalist.

"FAINT, YET PURSUING."

What three little words could be more blessedly descriptive of the Christian than these? Not "faint and sitting down;" not "faint and giving up;" but "faint, yet pursuing." We have to do with him who "giveth power to the faint," and who, "to them that have no might, increaseth strength." It is a blessed use to make of our faintness and weariness, that of drawing out of the fullness of the supply of grace and strength in Christ. It is said: "Be strong in the Lord, and in the power of his might;" but to whom? To the one who has no strength in himself-who would give up his eourse if strength were not supplied to him? One victory achieved, the conflict goes on afresh. Do we find onrselves failing in spirit? Still let us go on, for our God giveth strength to the weak. We like not this trial of faith. It is very painful, doubtless, to feel day after day our own weakness. We want to feel that the battle is over, but let us remember that now is onr time of war.-Bible Standard.

MEETING OUR OWN PRAYERS.

In eternity it will be a terrible thing for many a man to meet his own prayers. Their very language will condemn him, for he knew his duty and he did it not. Those fervent prayers, which the good man labored to make effectual, will be "shining ones" in white raiment, to conduct their author into the banqueting honse of the Great King. But the falsehoods uttered at the throne of grace will live again as tormenting scorpions in the day of the Lord's appearing. "Be not rash with thy month, nor let thy heart be hasty to utter anything before God," is an objection that forbids more than irreverence in prayer. It forbids us, by implication, to ask for that which we do not desire. Above all, it forbids the asking from God those blessings which we are hindering by our neglect, or thwarting by our selfishness and unbelief.

MATRIMONY.

It has been remarked that, in general, persons choose to unite themselves in matrimony to a partner the most opposite in every point, moral and physical. Generally speaking, indeed, it seems as if every man, upon intimate acquaintance, became heartily sick of his own self, and married a person as unlike the disagreeable original as possible.



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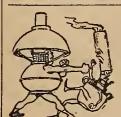
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THIS Weather Warning will faithfully forecast the weather for the ensuing 24 hours, so that you can get your own weather report without waiting for the newspapers to tell yon what the weather report is to he. It is a cyclone warning. When the weather is going to he wet, a fine noble dog arises from his kennel back in the distance, and approaches the opening (see illustration abnow), giving a signal that there is a storm approaching, and as the storm subsides, or if it will he over during the next 24 hours, a hutterfly in all its splendor appears to tell you that sunshine is athand, to gladden the hearts of mankind. The hutterfly and the dog are made of metal in handsome colors. The front is handsomely decorated with fancy designs and figures. In the centre stands an accurate thermometer, the whole thing heing so simple that a child will understand it at once. When the devastating hurricans, cyclone and wind storms are approaching your home, this machine warns you long ahead, giving you time to prepare. It is a wonderful machine, and will save your life and many a dollar hesides. It tells you whether you had hetter take your unrealla with you to-day. It tells a lady the weather, and she will know the most suitable dress to wear, etc. Enclose Geents to Morsee & Co., BMOX 897 Augusta, Me. Mention this paper when you answer this.

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A PRESENT

SEND us your address and we will make you a
present of the hest Automatic WASHING

MACHINE in the World. No wash-hoard or rubbing needed. We want you to show it to your friends,
or act as agent if you can. You can COIN MONEY
We also give a HANDSOME WATCH to the
first from each county. Write quick. Address N. Y. ve want you to show it to your friends, a fyou can. You can COIN MONEY A HANDSOME WATCH to the county. Write quick. Address N. Y. # LAUNDRY WORKS, 25 Dev St., N. Y. # LAUNDRY WORKS, 25 Dev St., N. Y.

A GOLD MINE.



This Gold Ring is 22 karats fine and is made from the pure bars of gold. Don't throw away your money buying brass rings advertised by others under misleading names but buy this 22 karat Pure Gold Ring which will be sent to any address on receipt of \$1.00.

to any address on receipt of \$1.00.
The Chicago Watch Co., 142 Dearborn St., Chicago.
Always mention this paper.



Gleanings.

Harper's Bazar, in a judicious editorial on wedding gifts, has this to say concerning a custom which, happily, is no longer countenanced by the hest society: "That one may have as many recurring wedding festivals as there are wedding days recurring, no one will deny. But that one may turn any of these festivals into an excuse for begging and receiving, an excuse for imposing another domestic tax upon friends and acquaintances, no one now will assert, whatever may have been polite usage a generation since. Indeed, whenever one thinks of the great sacredness and tenderness of the marriage relation, it seems difficult to see how any can be willing to vulgarize and profane it hy such a custom as the asking and receiving of gifts, and we would expect its anniversaries to be celebrated, not in rude merrymaking, hut with a sort of sweet solemnity, making such things impossible."

DON'T HURRY.

When we read that we must "never put off till to-morrow what we can do to-day," in what a fever of excitement and "high pressure" we find ourselves, as if the responsibility of the whole world rested on our shoulders. Perhaps Franklin was right; but that proverb cannot apply to people of this uineteenth century, when there is such a mad rush for wealth and amusement that everybody would he a "condensed Methuselah." There is no sense in drawing the tension so that it snaps in one year, while with a more moderate strain it may hold for twenty. But "hurry" seems the motto for the American people, and the following lines from Holmes just strike the keynote, and are well worth memorizing:

"Don't catch the fidgets; you have found your

Just ln the focus of a nervous race, Fretful to change and rapid to discuss, Full of excitement, always in a fuss, And with new notions-let me change the rule: Don't strike the iron till 'tis slightly cool."

ORANGE BASKETS.

While oranges are plentiful, this dainty recipe will be found to be an attractive addition to a refreshment table. Take any number of oranges needed, and from the top of each cut out a circular piece and remove the inside with a spoon or the finger, heing careful not to get the white pulp with it. Make gelatine in the usual way, and use the orange you extracted as part of the flavoring. It must be highly flavored. Fill each basket with the gelatine; but hefore this is done, scallop out with a pair of scissors the edge of each. Set them away to cool.

BAY RUM "AFTER SHAVE."

Bay rum, three pints; glycerine, oue half pint; extract of violet, one half fluid ounce; rose water, one half pint. Mix and filter if necessary. This combination also makes a splendid lotion for chapped hands and face, and is excellent to use after the bath.

To cure a felon, says a correspondent, mix equal parts of strong ammonia and water and hold your fingerin it for fifteen minutes. After that withdraw it and tie a piece of cloth completely saturated with the mixture around it and keep it there till dry. If this treatment is adopted when the ailment is at first realized, the pains will cease at once.

Doctor Flint is quoted as saying: "I have never known a dyspeptic to recover vigorous health who undertook to live after a strictly regulated diet, and I have never known an instance of a healthy person living according to a strictly dietetic system who did not become a dyspeptic."

IT IS BEST TO BREAK UP A CATARRHAL COLD In its carly stages, by using Dr. D. Jayne's Expectorant, and thereby save yourself much risk and misery.

ECONOMY IN A FAMILY.

There is nothing which goes so far toward placing young people beyond the reach of poverty as economy in the management of their domestic affairs. It matters not whether a man furnish little or much for his family, if there is a continual leakage in the kitchen or in the parlor. It is the husband's duty to bring into the house, and it is the duty of the wife to see that nothing goes wrongfully out of it; not the least article, however unimportant in itself, for it establishes a precedent; nor under any pretense, for it opeus the door for ruin to stalk in; and he seldom leaves an opportunity unimproved. The husband's interest should be the wife's care, and her greatest ambition should carry her no farther than his welfare or happiness, together with that of her children. This should be her sole aim, and the theater of her exploits in the bosom of her family, where she may do as much toward making a fortune as he can in the counting-room or workshop. It is not the money earned that makes a man wealthy; it is what he saves from his earnings. A good and prudent husband makes a deposit of the fruits of his lahor with his best friend, and if that friend be not true to him, what has he to hope? If he dare not place confidence in the companion of his bosom, where is he to place it?

THE VALUE OF EXERCISE.

In order to secure a long life and a green, old age, somebody has said, and no one will dispute, bodily vigor should be sustained hy regular, systematic exercise, avoiding all sudden strain and prolonged exertion as much as possible. Especially is this true of running, lifting, climbing, etc. And labor, while desirable in moderation, should never be prolonged till it produces exhaustion.

Recent Publications.

CATALOGUES RECEIVED.

Orange County Nursery. T. J. Dwyer, Coru-

Everything in Seeds. Twenty-first annual catalogue. A. D. Perry & Co., 217 Warren St., Syracuse, N. Y.

Burpee's select list of novelties and specialties for 1891. W. Atlee Burpee & Co., Philadelphia, Pa.

Annual seed catalogue. F. W. Ritter & Co., Dayton, Ohio.

Retail catalogue of warranted vegetable, flower and grain seeds. James J. H. Gregory,

Marhlehead, Mass. Small fruit plants. F. R. Palmer & Son, Mansfield, Ohlo.

Reliable seeds. Frank Fluch, Clyde, N. Y. Illustrated hand-hook of vegetable and flower seeds. W. W. Rawson & Co., Boston, Mass.

Vick's Floral Gulde. James Vick, seedsman, Rochester, N. Y.

American Grape Vines. George S. Josselyn, Fredonia, N. Y.

Small fruits. D. Brandt, Bremen, Ohio. Guide to Horticulture. J. T. Lovett Company,

Little Silver, N. J. Catalogue of Green's Nursery Co. Chas. A. Green, Rochester, N. Y.

Garden aud farm seeds, Implements, plants,

bulhs, etc. John A. Salger, La Crosse, Wis. Seed catalogue for farm and garden. T. W.

Wood & Sons, Richmond, Va. Field and garden seeds. Bouk & Aupert,

Greenwood, Neb. Garden and Farm Manual. Johnson &

Stokes, Philadelphia, Pa.

Horticultural Guide. Currle Bros., Milwaukee, Wis.

Garden, field and flower seeds. Samuel Wilson, Mechanicsville, Pa.

Coles' Garden Annual. Coles' Seed Store. Pella, Iowa,

Pedigree seeds. A. C. Nellis & Co., 62 Cortlandt street. New York.

Garden and flower seed. John G. Hartel,

Keokuk, Iowa. South St. Louis Nurserles, S. M. Bayles, St.

South St. Louis Nurserles. S. M. Bayles, St. Louis, Mo.
Fruits and Fruit Trees. Points for practical tree planters. Stark Bros. Nursery Co., Louisiana, Mo.
Oranges and Vegetahles. Illustrated pamphlet published by the Bradley Fertillzer Co., Boston, Mass.
Descriptive catalogue of the Aspinwall potato planter. Aspinwall Manufacturing Co., Three Rivers, Mich.
Poultry Doctor, Including the homeopathic treatment and cure of chickens, turkeys, geese, ducks and singing birds. Fifty cents. Boericke & Tafel, Philadelphia, Pa.

GOOD WORDS.

DELANO, CAL., Sept. 2, 1890. I received the premium Sewing Machine ahout three weeks ago, all right, and after glviug it a falr trial I can say it is oue of the best, as well as the easiest running and simplest to understaud, that I ever ruu. I am extra well pleased with lt. One like it would cost about \$60.00 here and that only cost \$21.00, including freight. Several neighbors that have seeu mine talk of sending for one, too. Please accept my thanks.

MRS. FRANK BRENNAN.

CHASEBURGH, WIS., Sept. 22, 1890. We received the Sewiug Machine in good shape. Have given it a trial and are well pleased with it. We thank you very much and wish you success. MEZZA MOORE.

SUNSET, TEXAS, Feb. 2, 1891. I received the Peerless Atlas of the World in good order, and I think it is the best atlas I ever saw; would not sell it for \$5.00.

MARTHA WITTE.

MEADVILLE, PA., Feb. 10, 1891.

The picture, "Christ on Calvary," came to haud all safe this afternoon, and I had the frame all ready for it, so framed It as soon as I received it. Am well pleased with it. I have the pair, now. W. J. MONFORT.

DOVER, MINN., Feb. 10, 1891. We are in receipt of a heautiful copy of your Cook Book, which is highly appreciated hy the housewife, as Is your paper. Many thanks. C. R. HILL.

TOLEDO, IOWA, Feh. 12, 1891. I received the Peerless Atlas of the World a few days ago and mnst say I am very much pleased with lt. I would not take \$5.00 for lt, and don't see how I could get along without lt. BESSIE M. MCANULTY.

BEAVER CREEK, Col., Feb. 10, 1891. I received the Peerless Atlas and am highly pleased with it, and think it is worth twice the money I gave for it. I cannot see how such a book can he published for the money. I hope you will have good success.

E. L. COFFMAN.

Lowell, Ohio, Feb. 13, 1891. I received your Peerless Atlas and am well

pleased with it. Would not he without it for twice what it cost. ANNIE EINGE.

PAINESVILLE, OHIO, Jan. 6, 1891. I received the Modern Cook Book in good order. Thank you kindly for it. It is much nicer than anything I expected. Would not take a great deal for it if I could not get an-MRS. CORA BOWHALL.

KING'S POINT, Mo., Feh. 18, 1891. The Sewing Machine I got from you one year ago is "singing" the right tune aud is as good as the \$40.00 machines here. The freight was \$1, making it cost \$15. I cannot see why everyone caunot take advantage of such a hargain as this. Many thanks.

MARTHA A. HEISKELL.

READING, KANSAS, Feb. 13, 1891. The premiums came to hand to-day, namely Model Dictionary, Cook Book, Book of Six Hundred Songs and the picture, "Christ on Calvary." I was surprised as well as pleased, not only at the value of the premiums, but the promptness in sending them, for which I thauk you. Success to Farm and Fireside.

MANNING SELLS.

ATHOL, PA., Sept. 4, 1890. I received the Peerless Atlas and am very

well pleased with it. It is the most complete work of the klud I have ever seen.

SALLIE EHRGOOD.

CHANDLER, KAN., August 16, 1890. We received the Peerless Atlas and are well pleased with it. It is just splendid. Many J. T. CLINES.

BONDURANT, IOWA, Feb. 16, 1891. I got my Cook Book all right. Am highly pleased with it. I would not part with it for twice what It cost me. MRS. ELLEN BIDDLE.

BEATTY PIANOS (new) \$145. OR GANS \$55. DANIEL F. BEATTY, Washington, N. J.

A NEW AND VALUABLE BOOK ON BUSI-NESS. 12mo, 236 pages, nearly 100 illustra-tions. Send your address to THE NATION-AL BOOK CO., 117 Public Sq. Clereland, O.

A BIG OFFER

MINUTE: If you will hang up in the P.O., or some public place, the two show to mentione minute, and then if you want to work on salary at \$50 or \$100 per month, let us know. We pay in advance. GIANT OXIE CO., 21 Willow St., Augusta, Me. Please mention this paper when you write.

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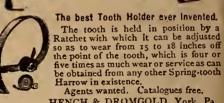
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Onr new patent Safes sell at sight in city or country. New Agents first in field actually getting ricb. One Agent in one day cleared \$86. So can you. Catalogue free. ALPINE SAFE CO., No. 363-371 Clark St., Cincinnati, O. Mention this paper when you write.

HENCH & DROMGOLD'S All Steel Frame Spring-tooth Harrow

A WONDERFUL IMPROVEMENT.





HENCH & DROMGOLD, York, Pa. Mention; this paper when you write.

Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several

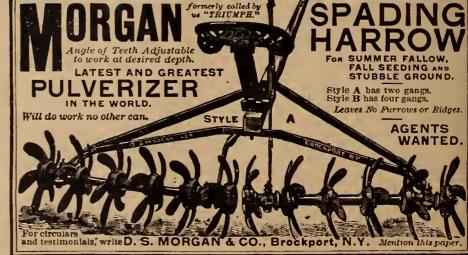


Improved Farm and Carden
Tools for 1891.

BETTER, Both Horse & Hand, THAN EVER; better and more money saving. We cannot describe them here, but on r new and bandsome catalogue is free and interesting. A goodly number of new tools will meet your eye there, Among these, Gardener's Harrow, Cultivator or Pulverizer, combined, adjustable teeth; Market or Gardener's & Beet Grower's Special Horse Hoe with Pulverizer, Special Furrower, Marker and Ridger, adjustable wings; Sweet Potatoe Horse Hoe, four tooth with vine turner; Heavy Grass Edger and Path Cleaner; mw Nine Tooth Cultivator and Horse Hoe combined; Special Steel Leveler and Pulverizer combined; all interesting, nothing we have ever made so practical or perfect. Some improved things too are grafted npon onrolder favorites. A capital LEVER WHEEL, instantly adjustable for depth, is a great feature; put on all'91 goods nulessordered otherwise. Not have our Hand Seed Drills been forgotten in the march of improvement, nor our Donble and Single Wheel Hoes, Garden Plows, Grass Edgers, Etc. Some of them are greatly altered for the better; yet do not forget that no norelies are adopted by we without actual and exhaustire tests in the field. We therefore guar-S. L. Aller & Co., Philadelphia, Pa.

Mention this paper when you write.

FOR A I formerly ealled by (CDADING



Be sure to mention this paper whenlyou answer this.

BUGGY OR ROAD CART ON A ROUGH ROAD unless it was bought from THE FOSTER BUGGY & CART CO., 32 Pike Bldg., Cincinnati, Ohio, the best and cheapest Buggy and Cart Emporium on Earth, who sell direct to the people at Factory prices. Write for prices before buying elsewhere.

Our Miscellany.

GARDEN SEEDS.

Good seed is one of the essential conditions of success ln growing garden stuff, and to secure It is well worth considerable trouble and effort. Compared with the results, particularly with the great difference in the outcome of one kind of seed and of another, the greater expense of a reliable article is not worth taking into consideration. A few cents' difference in cost of seed may make many dollars' difference in the returns. When a whole crop and its quality is at stake, there is no wisdom In running the slightest risk for the sake of a small saving in the expense. Cheap seed ls not necessarily poor; but poor seed is always a costly investment. The fact is that seed of a really first-class quality cannot be grown profitably at very low figures, and the only judicious course to follow is to buy of a strictly reliable source, and be willing to pay a reasonable price. Would you take a medicine that happens to be on haud, merely for the sake of saving it? It is no more foolish a proceeding than to use seeds because you happen to have them, or can get them at little or no expense. Never plant a seed of the superior character and quality of which you are not reasonably certain. Little difficulty will be experienced If anyone is anxious to purchase reliable garden seeds, since there are many firms of established reputation, whose goods can be depended upon for quality and purity. All the larger reputable houses send out no seed, except that of the purity and reliability of which they are tolerably sure, and only after testing and approving of its vitality.

PRINCIPLES OF GERMINATION .- Much stress has recently been laid upon the importance of using the feet in firming the soil over the newly-sown seed. I am inclined to deem the use of the head in seed sowing of still greater consequence. Anyone who has a thorough understanding of the principles involved, and follows the dictates of common sense in their practical application, will have no difficulty in getting live seed to germinate, whether he makes use of his feet in sowing the seed and firming the soil, or not. Yet, in a large number of cases the practice is decidedly commendable, and will often insure success where the unskilled would otherwise fail. What are these principles?

Moisture, a certain degree of heat (varying with different seeds), access of air and absence of light—these are the chief requirements. How can we best supply them?

The warnth generated by the sun rays is our chief reliance for the needed high temperature in open-air culture, without artificial assistance; and only in eulture under glass do we resort to various devices to save, augment or supplement this heat, either by the prevention of loss through radiation from the soil, by sash covering alone, or in combination with additional artificial heat from fermenting manures, flues or pipes.

Constant but moderate supply of molsture is another chief point, and to insure it the seed should be bedded in mellow soil, and this packed around it just firm enough to bring it in actual contact with it, and facilitate and make sure of capillary action. If left loose over and around the seed, the capillary movement of the soil water would here come to a stop, the puiverlzed soil dry out ou a sunshlny day and, depriving the seed of the needed moisture, prevent its germiuation, or kill the sprout, if this has already started into life. Excess of moisture should also be avoided.

On the other hand, the soil must not be compact enough above the seed to hinder the upward passage of the young sprout. This is a prolifie cause of failure with seeds. While having considerable force, yet the tiny plants only too often choke and die hecause unable to penetrate a hardened crust of soil. This eonsideration makes it necessary that the ground he well prepared and thoroughly mellowed hefore the seed is sown, and that the latter be not placed deeper than would correwith its vitai Large course, have greater life force, and for this reason can be planted deeper than small seeds, from which comparatively weakly sprouts are issuing .- From "How to Make the Garden Pay,"

It has recently been demonstrated that some articles of merchandise, which have been hefore the public of England for the last half century, are nine times more used there than all other principal patent medicines put together. We refer to Beecham's Pills, which in order to meet the wishes and requirements expressed by Americans, many of whom aiready know their value, are now introduced in such a thorough manner that no home need be without them in America. These pills are round and will therefore roll. They have already rolled into every English-speaking country in the world, and they are still rolling. All sufferers from indigestion, flatulency, constipation and all other forms of stomach and liver troubles have now this famous aud inexpensive remedy within their reach; but should they find, upon inquiry, that their druggist does not keep Brecham's Pills, they can send twenty-five cents to the General Agents for the United States, B. F. Allen & Co , 355 Canal Street, New York City, who will promptly mail them to any address.

ESTIMATED QUANTITIES OF SEED REQUIRED FOR THE SPACES GIVEN.

Asparagus—1 ounce produces 1,000 plants, and requires a bed 12 feet square.

Asparagus Roots—1,000 plants, a bed 4 feet wide aud 225 feet long.

English Dwarf Beans-1 quart plants from 100 to 150 feet of row.

French Dwarf Beans—1 quart plants 250 to

350 feet of row.

Beans, Pole, Large—1 quart plants 100 hills.

Beans, Pole, Small—1 quart plants 39 hills, or

250 feet of row.

Beets-10 pounds to the acre; 1 ounce plants
150 feet of row.

Broccoll and Kale-1 ounce plants 2,500 plants, and requires 40 square feet of ground.

Cabbage - Early sorts, same as broccoil, and requires 60 square feet of ground.

Cauliflower - The same as cabbage.

Carrot—I ounce to 150 feet of row. Celery—I ounce gives 7,000 plants, and requires 8 square feet of ground.

Cucumber—I ounce for 150 hills.

Cress—I ounce sows a hed 16 feet square.

Egg Plant—I ounce gives 2,000 plants.

Endivc—I ounce gives 3,000 plants, and re-

quircs 80 feet of ground.

Leek—1 ounce gives 2,000 plants, and requires 60 feet of ground.

Lettuce-1 ounce gives 7,000 plants, and requires seed hed of 120 feet.

Melon-1 ounce for 120 hills.

Nasturthm-1 ounce sows 25 feet of row.
Oulon-1 ounce sows 200 feet of row.
Okra-1 ounce sows 200 feet of row.
Parslcy-1 ounce sows 200 feet of row.
Parsuip-1 ounce sows 250 feet of row.

Parsuip—1 ounce sows 250 feet of row.
Peppers—1 ounce gives 2,500 plants.
Peas—1 quart sows 120 feet of row.
Pumpkin—1 ounce to 150 hills.
Radish—1 ounce to 100 feet.

Salsify-1 ounce to 50 feet of row. Splnach-1 ounce to 200 feet of row. Squash-1 ounce to 75 hills.

Tomato-1 ounce gives 2,500 plants, requiring seed bed of 80 feet.

Turnlp-1 ounce to 2,000 feet. Watermelon-1 ounce to 50 hills.

THE Romans etched their public records on brass.

On the dried skin of serpents were once written the Iliad and Odyssey.

FROM the remotest times men saluted the sun, moon and stars by klssing the hand.

THE mean term of human life has gradually increased in the last fifty years from thirty-four to forty-two years.

THE army of France shows up at nearly 4,000,000 strong and eosts about half as much per year as our pensions.

THE water system of the Amazon affords not less than 30,000 mlles of free navigation within the great Brazilian territory.

THE body of a petrified man, found in a canyon in Fresno county, Cal., has been sold for \$10,000, for purposes of exhibition.

FLUTES found in the pyramids of Egypt, played three thousand years after burial, show that the Egyptians had our scale.

THE pumlee stone was a writing material of the ancients; they used it to smooth the roughuess of the parchment, or to sharpen their

THE great authority, Renuel, puts Cræsus's wealth at \$2,000,000,000. Solomon's is estimated by some sacred historians at \$8,000,000,000. None of 'em know.

receipt of imported hemp for Dr. H. James' receipt of imported hemp for the positive and permanent cure of *Consumption* and *Bronchitis*. Craddock & Co., 1032 Race St., Phlladelphia, Pa.

DENTIST—"A dollar, please." Patient—"A dollar for just a minute's work? The last dentist who pulled a tooth for me dragged me around his shop for half an hour and broke the tooth off twice, and he charged me only seventy-five cents.—Chicago Post.

"Cheap Lands and Homes in Kentucky, Tennessee, Georgia, Alabama, Mississippi and Louisiana" is the Title of a Pamphlet issued hy D. G. Edwards, Cincinnati, Ohio, General Passenger and Ticket Agent Queen & Crescent Route, containing correct County map of these States. Mailed free on application, to any address.

SINCE Queen Victoria's accession, the present royal family of England has cost the nation the considerable snm of \$173,113,145. Of this amount about \$125,000,000 has been spent toward maintaining the state and household and toward filling the Queen's private purse.

BEECHAM'S PILLS cure Sick-Headache.

THE LONGEST DAY.

The longest day of the year has nineteen hours at St. Petershurg, seventeen hours at Hamhnrg, sixteen and one fourth hours at London, fifteen hours at Philadelphia and three and one half months at Spitzbergen.

CONSUMPTION CURED.

An old physician, retired from practice, had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Brouchitis, Catarrh, Asthma and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human suffering. I will send free of charge to all who wish it, this recipe in German, French or English, with full directious for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. Notes, \$20 Powers' Block, Rochester, N. Y.



THE total length of the streets, avenues, boulevards, bridges, quays and thoroughfares of Paris is set down at six hundred miles, of which nearly two hundred are planted with trees.

Large quantities of gold are used every year for ornamental purposes. In England \$250,000,000 is used in the shape of plate, jewelry, etc., but \$50,000,000 less than the amount of gold used for monetary purpose.

THE most ancient mode of writing was on hricks, tiles, oyster shells and on tables of stone; afterward on plates of various materials, on ivory, on barks of trees, on leaves of trees.

A RECENT survey has established the number of glaciers in the Aips at 1,155, of which 249 liave a length of more than four and three quarter miles. The French Aips contain 144 glaciers, those of Italy 78, Switzerland 471 and Austria 462.

THE scheme of Pundita Ramabal to rescue the child-widows of India, for which she enlisted substantial sympathy hy her lecture in this country a year or two ago, is not proving as successful, it is said, as she and her friends hoped it would. A reform which strikes at one of the greatest social weaknesses of castebound India cannot, however, be expected to travel with railroad speed. If, in these early days of its inception, it attains the momentum of Juggernaut's car, it will be a cause for hopefulness.

THERE are about seventy-five thousand persons in prison in the United States. There are at least as many more persons out of prison who belong to the criminal class, making one hundred and fifty thousand criminals, or one for every four hundred inhabitants.

MRS. CHARLOTTE FOWLER WELLS is president of the Fowler & Wells Publishing Co., and the only surviving member of an organization founded by her brothers, the well-known phrenologists, more than half a century ago. Mrs. Wells, who is now seventy years of age, successfully conducted the establishment through a period of great financial depression, during the war, and, until lately, has read the manuscripts and proofs of all the books and periodicals hearing the imprint of her house.

If a box six feet deep were filled with seawater and allowed to evaporate under the sun, there would be two inches of salt on the bottom. Taking the average depth of the ocean to be three miles, there would be a layer of pure salt 230 feet thick on the bed of the Atlantic.

White women missionaries to the women of New Zealand are responsible for a great loss of life among their Maori converts. The missionaries insisted that the Maorl women should wear clothing, and the latter, unable to overcome their prejudice against skirts, have compromised by adopting the corset, which they observed the missionaries wore. The result is that every Maori woman goes about her daily work clad in a corset laced as tightly as the united efforts of half a dozen stalwart warriors can lace it, to the ruin of her health and the loss of life itself in many instances.

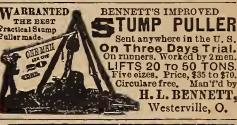
A REMARKABLE PRODUCTION.

Our latest edition of the Peerless Atlas Is being mailed to thousands of subscribers. The Atlas has been greatly improved, making it by far the hest atlas ever offered for the money. It gives the population figures of the census of 1890. 32 pages have been added, glvlng room for additional reading matter, as well as hundreds of handsome litustrations. A number of new maps are published in this edition for the first time. See our offer on page 194.

We have 2000 Acres farm land. Price \$10 per acre. We will, to a party of three or more, furnish all the land they can use for five years, rent free; furnish lumber for buildings and contract to sell at end of lease. It will pay you to get up a party and send representative here. C. C. FOLLMER & CO., GRAND RAPIDS, MICH.

Ask your Dealer for this Brand of Shingles.







THE LOWER BRAIN.

A woman doctor of Chicago, after a long residence in that city, has written an able tractate, entitled "The Ahdominal Brain." She iusists that the brain (from her experience) lies quite as largely in the abdomen as in the head. This is a new view of anatomy, viewed from a local standpoint. It explains a great many facts concerning our sister city, and should he taken into consideration in estimating some eccentricities connected with her press, pulpit and bar. But it is more likely a very general phenomena that explains the devotion which a large share of humanity pays to the stomach and its pleasures. Their brains are there.—St. Louis Globe-Democrat.

LIVING FOR CENTURIES IN A SOLID ROCK.

The dislodgement of live bats and toads from solid limestone or coal seems to have so often occurred as to need no more proof of the fact. The possibility of a suspension of animation for great periods of time is certainly possible in the case of some creatures. Recently a live bat was dug out in Romney, W. Va., by men quarrying rock. The hole in the stone was only large enough for the bat's body. A case occurred at Barton, Md., when the superintendent of the mines had a plaster east taken of the cavity. The hat was found one mile from the mouth of the mine, and 200 feet from the surface above. Those who have been In caves and witnessed the enormous congregation of bats will not wonder that they should become imbedded at times; but that they should retain vitality for years and ages is the miracle. It now remains for man to find out If this power of the lower creatures is totally lost to those of a higher organic and functional rank .- St. Louis Globe-Democrat.

Smiles.

IN THE DARK.

The hall was dark. I heard The rustle of a skirt. "Ha, ha!" thought I, "I'll catch You now, my little flirt!"

Softly I sallied forth. Resolved when I had kissed her, That I'd make her believe I'd thought it was my sister.

The deed was done. Oh, bliss! Could any man resist her? Apology was made-Alas, it was my sister!

-George Birdseye, in Judge.

FOREBODINGS.

When Women's Rights have come to stay, Oh, who will rock the cradle? When wives are at the polls ali day, Oh, who will rock the cradle? When Doctor Mamma's making pills, When Merchant Mamma's selling bills, Of course, 'twill care all woman's ilis, But who will rock the cradle?

When mamma to the court has hied, Oh, who will rock the cradle? She has a case that must be tried. But who will rock the cradle? When Captain Mamma walks her decks, When Banker Mamma's cashing checks, When all our girls have lost their sex,

PAPA

Rock

The cradle?

HIS LIGHT PUT OUT.

He had worn a colored blazer on the Nile; He had sported spats in Persia, just for style; With a necktie quite too utter, in the streets of old Calcutta, he had stirred up quite a flutter for a while.

The maids of Java thronged before his door, Attracted by the tronsers that he wore.

And his vest, a bosom venter, shook Formosa to its ceuter; and they hailed him as a mentor by the score.

On his own ground, as a masher on the street. He outdid a Turkish pasha, who stood treat. He gave Shanghai girls the jumps, and their cheeks stuck out like mumps, at the patent leather pumps on his feet.

But he called upon a Boston girl one night, With a necktie ready made, which wasn't

And she looked at him, this maid did, and he faded and he faded, and he faded and he faded ont of sight. -Tom Masson.

NOT THE ODOR OF SANCTITY.

THE rector of one of our most wealthy aud fashionable congregations was seated with his family at the Sunday dinuer-table, deeply engaged in a discussion as to the probable cause of a peculiar and unpleasant odor which had permeated the church during the last few services. After the inquiry had completely exhausted the subject of drains, defective plumbing aud insufficient ventilation, a youthful scion broke out with:

"Say, you don't suppose we could smell those chickens, do yon?"

"What chickens do you mean, Robby?" asked his father.

"Why, you know; the chickens that the new sexton is raising in the cold-air box of the furnace."

MUSTACHE TRAINER.

One of the latest novelties for gentlemen is a mustache trainer. It may be styled a companion to the femiuine curl paper. It is made of a plate of thiu metal, shaped like the mustache, and is to be worn at night. The inventor is from Paris, and it is said that a great many are aiready in use in New York.

THE LESSER OF TWO EVILS.

"James," exclaimed the proprietor of the store, angrily, "put that glass cover back on the limburger cheese."

A customer came iu smoking a cigarette. "James," vociferated the proprietor, "take that cover off the limburger cheese again!"

TRULY PRUDENT.

Ethel-"I know he is a fluancier, but he is not a speculator."

Maude-"How do you know?" Ethel-"He didn't buy our engagement ring

until he was quite sure that I would accept

FREE COINAGE HIS FORTE.

"On this financial question, are you in favor of the free coinage of silver?" asked a passcuger on the Erie road, of his neighbor.

"in favor of it? Why, sir, I've done seven years twice and five years once for it!"

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NO FUN IN PUNS.

"No, I can't see any fun in playing on words," said the man in the big mackintosh, gloomily. "A pun once cost me \$100,000."

"How was it?"

"You needn't gather around me; it isn't much of a story. A fat, old aunt had come to visit us. They told me to go in the parlor and pay my respects. I was a very smart young man. I went in and told her in a cheery, offhand way, that I had come in to make my obelsance to my obese aunt. That's all there is of it."

"But how about the \$100,000?"

"She left it to her other nephew."-Chicago Tribune.

ENTIRELY SPOILED.

Mrs. Porknpine (of the West)-"Now, there is a charming imported vase. I must buy it at

Dealer-"It's a very fine piece; but it is of domestic manufacture, and exceedingly cheap -only \$10."

Mrs. Porkupine-"Do you mean it?" Dealer-"Certainly, madam."

Mrs. Porknpine-"What a shame! And so lovely!"-American Stationer.

A WOMAN'S REASON.

Laura (at the play)-"I wonder why Booth isn't with Barrett this season?"

Jean-"Why, don't you know that Booth is giving all his time to that wonderful Salvation Army of his, and to his plan for helping the London poor? Why don't you read the papers, dear?"-Pittsburgh Bulletin.

AN UNKIND SUGGESTION.

Higgins-"I've got a new idea for a book. I'm going to write the autobiography of a

Tiggins-"You could write the autobiography of a donkey better, I think."

ALL HOPE ABANDON.

Poet (meekly)-"I should like to leave this little poem for your inspection. I suppose a great many poems are left here."

Editor (gruffly)-"Yes, and so are the fellows who want us to buy them."

A PLEASANT PROSPECT.

"How is your new home coming on?"

"First rate. We've got the roof and the mortgage on. I think we shall have the fnrnace and the sheriff in before the year is out."

A HALF MEMORY.

Teacher-"Who discovered America?" Street gamin (after deep thought)-"I disremember his name, but he was a Dago."-New

A REVERSIBLE PROVERB.

She-"Riches take wings." He-"Yes, and the wings you wear in your hat takes riches.

SOMEWHAT MOLDY.

Greene-"Gibson is fond of ventilating his opinions, isn't he?"

White-"Yes; and the Lord knows most of 'em need it!"

LITTLE BITS.

Job was probably the most precocious child on record. He cursed the day that he was

Absalom was one of the first men on record to be "held up" while going through the woods.-Light.

Father (looking over the paper)-"More bad news! A hitherto unknown frog pond has been discovered in central Africa." Mother— "What is that to us?" Father-"What is that to us? It means that every one of our eight children will have to have a new and revised edition of Highprice's geography."

It is reported that, fired by the medical exploits now going on all around, some prominent physicians of the country are considering the feasibility of grafting thought-germs on average braius. The experiment, if suc ful, will dispose of pre-natal and heredltary influences, and enable a man to be inoculated with literary, artistic, scientific or professional tastes, at pleasure.-Baltimore American.

"Yep," said old mau Dunlap, "I 'member jest as well when the first caravan came through these parts. 'Twuz forty-three years ago last grass. They had the first elephant ever seen hereabouts-ole Bollvar-an' I teil ve he was a buster! After they had got through their performin', ole Bolivar got loose and went rampagin' round the nelghborhood, an' finally brought up down back o' Si Pettingill's haystack. Sl'd never seen an elephant, an' next mornin' when he turned the corner of his stack an' run smack up in front of olo Bolivar, I teli you lt s'prized him some! He jest stopped, throwed up both hands an' hollered: 'Gosh all hemlock, what a toad!' an' put for the house."-Puck.

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Selections.

GREAT EATERS.

HE Russians eat, on an average, says a contemporary, once in every two hours. The climate and custom require such frequent meals, the digestion of which is aided

by frequent draughts of vodki and tea. Vodki is the Russian whiskey and made from potatoes and rye. It is fiery and colorless and flavored with some extract like vanilla or orange. It is drunk from small cups that hold, perhaps, half a gill. Vodki and tea are the inseparable accompaniments of friendly as well as of business intercourse in the country of the ezar. Drunken men are rare. Russia and Sweeden are the only countries in which the double dinner is the rule. When you go to the house of a Russian, be he friend or a stranger, you are at once invited to a side table, where salted meat, pickled eel, salted cucumbers and many other spicy and appetizing viands are urged upon you with an impressiveness that knows no refusal. This repast is washed down with frequent cups of vodki. That over, and when the visitor feels as if he had eaten enough for twenty-four honrs, the host says: "And now for dinner."

HOW TO BOIL AN EGG.

"Isn't it strange," said a short, foreignlooking man the other day to some companions, while lunching together at one of the restaurants, "that uot one cook in fifty, nor housekeeper either, knows how to boil an egg? And yet most people think they know this simple matter. They will tell you to drop it into boiling water and let it remain three minutes, and to be sure the water is boiling. Here is where the mistake is made. An egg so prepared is indigestible and hardly fit for a well person, let alone one who is sick, to eat. The moment it is plunged into boiling water the white hardens aud tonghens. To boil an egg properly, put it in a vessel, cover with cold water, place over the fire and the second the water begins to boil your egg is done. The white is as delicate as a jelly and as easily digested and nutritious as it should be. Try it."—Chicago Tribune.

ROUND SHOULDERS.

Round shoulders are almost unavoidably accompanied by weak lnngs, but may be cured by the simple and easilyperformed exercise of raising one's self upon the toes leisurely, in a perpendicular position, several times daily. Take a perfeetly upright position, with the heels together and the toes at an angle of fortyfive degrees. Drop the arms lifelessly by the sides, animating and raising the chest to its full capacity muscularly, the chin well drawn in. Slowly rise upon the balls of the feet to the greatest possible height, thereby exercising all the muscles of the legs and the body; come again into the standing position without swaying the body out of perfect line. Repeat this exercise first on one foot and then on the other.

FLORIDA CAMPHOR.

According to a paper read by Professor on, at the October meeting of the Philadelphia College of Pharmacy, the camphor tree is being cultivated successfully in Florida. (American Journal of Pharmacy, Nov., page 565.) It seems to flourish in almost any soil and the tree grows rapidly. It is believed that in ten years time there will be more camphor trees than orange trees in Florida, and that the camphor industry will prove to be more profitable than that of sugar. The camphor obtained from the Florida trees approaches more nearly to that of Japan than to Chinese camphor, since the odor of safrol is distinctly recognizable.

When a new minister comes to a town he is "called." When he leaves it he is often called, too; but just what he is called we decline to state. - Yonkers Statesman.

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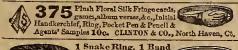
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What Shall We Wear * * and How to Make It.

Conducted by Dinah Sturgis, 157 Newbury St., Boston, Mass.

THE BROOK IN WINTER. Under the sparkling snowdrift, Screened from the light of day, Merrily sings the brooklet Its flowery springtime lay.

Flowing in ice-bound darkness, Its murmurous spírit knows A subtle sense of the trembling Reflection of spring's wild rose. -R. K. Munkittrick, in the Traveler's Record.

FASHIONABLE WRAPS.

A ladylike model for a long cloak (see Fig. 6) is made from figured camel's hair,



lined throughout for warmth. fortable high collar, cuffs, muff and simulated fichu (continued to trim the skirt of the garment) are of Persian lamb. One of last season's garments, with the addition of new trimming arranged as shown, would pass muster as a new cloak. The arrangement of the Persianer over the shoulders is especially calculated to hide

Fig. 6.

the tops of sleeves not full enough or high enough to be in style.

A handsome carriage cloak of silk and wool matelasse in crimson and black, has loose fronts and a half fitted back. It is lined throughout with white Angora fur, and trimmed about the hands, around the neck and down the fronts with the long, fleecy, Japanese llama.

A useful cape is provided with two collars, one of medium height, the other in the form of a deep, rolling collar, forming revers in front, which can be turned up about the ears in very cold weather, in driving, etc.

YOUNG LADIES' CLOTH COSTUME.

A fashionable promenade costume, after a French design, is shown in Fig. 5. The long, polonaise-like coat is made of cheviot in checks of beige and uavy blue; it is double-breasted and fastens invisibly on the left side. Below the waist line at the back there are two fluted puffs. Plain, navy-blue velvet is used for cuffs, collar band, and to simulate an under robe just disclosed by the fur that borders the opening. The fur used is black skunk

fur, to match the muff. The blue beaver hat is trimmed with a drapery of beige-colored faille, finished with upright ends and caught down with fancy pins. Shaded ostrich feather.

CHILDREN'S FASHIONS.

Simplicity of a very sweet and charming fashion obtains in children's garments, which may be expensively dainty or inexpensively pretty, but which must be comfortable.

Among the new bonnets for little girls | ance of beautiful handwork applique, is one in "granny" shape (see Fig. 1), with gaffered (plaited) curtain protecting the neck at the back, and turned up brim. The model is of white faille, faced with pink plush and edged with gold galon and a band of pink feathers. These feather bands may be bought in all shades for use in millinery, bodice trimmings and so on. Pink ribbon is twisted around the crown and under the brim, ending in a few

A pretty party dress for a school-girl is developed in cream nun's veiling, drawn with several full gathers around the waist, and ornamented on the skirt with rows of cream insertion. The full sleeves are of nun's veiling, covered with cream lace. A deep frill of the lace, with a little heading, forms a yoke-like collar on the waist. Cream ribbon, Nile green or rose-pink ribbon is tied around the arms and fastened with a butterfly bow on the shoulder.

A comfortable little house frock for his small lordship is made from a patterned flannel or cashmere (see Fig. 3, a). It is a one-piece dress, made over a waist lining. The front is cut entire from throat to knee, plaited and smocked at the waist line. The back is made in the same style. The under-arm pieces are plain to the belt, below which the skirt breadths are gathered slightly, the belt covering the seam.

A simple dress for a girl from four to six has a collar and round yoke of Marguerite red velvet, with a soft, wool robe below it in which mignonette shades predominate. The dress is shaped under the arms, the fullness of girdle. Front and sides (in one) are cut on the bias; the back of the dress is laid in three boxplaits from the yoke to the bottom of the skirt. The sleeves are moderately full and set up high on the shoulders (see Fig. 3, b.)

A princess gown for a maiden from seven to ten years old is shown in Fig. 3, c. Various materials are suited to this mode, the selection depending on whether the dress is designed for every-day or less frequent wear. The fronts hang loose from the shoulder, the underarın seams being faced through-

out with lining to correspond with the outside. This is a good model for using up the odds and ends of embroidery or pretty, soft silks to be picked up at this season at reduced prices. The back is cut whole, from neck to foot, with plaits in the seams below the waist line.

Boys from four to seven look well in

cloth is used for the coat and the crown of the cap; the brim of the latter and the coat cuffs and collar are made from astrakhan. Buttons, covered with astrakhan, and silk-cord loops fasten the partially double-breasted fronts.

STYLISH CLOTH PRESSES.

Pattern robes are made up into stylish gowns for day wear. These are imported at all prices and in a great variety of styles and colors. Soft camel's hair suitings in the rich, deep-hued, dahlia shades are many of them handsomely embroidered in harmonizing tints, with silk outlined upon velvet scrolls, giving every appear-



Fig. 1.

although it is all done by machinery and consequently is a deal less costly than the simplest handwork could be. The usual distribution of this embroidery upon the pattern robe is to provide the front of the skirt, the sleeves and some bodice trim-

A pretty and serviceable pattern robe, imported to sell at \$25.00, and marked down to \$10.00 because it arrived late in the season, is a blue serge, a portion of which, intended for the skirt, is horizontally striped in small, close cords of uncut black velvet, woven into the goods.

A plain skirt, polonaise back and basque front overdress, blocked along the edges and bound with black velvet, with revers of the goods on either side of a black silk, pointed vest, makes a modish gown. A blue cloth coat, black hat and gloves complete the costume.

A lovely dress for an elderly woman is a combination of gray moire and velvet of the same shade. The trained skirt is of moire; the tablier, plastron and upper part of the sleeves are embroidered all over with pale, silver-gray silk and

Among the chic gowns for young ladies for afteruoon tea and reception wear, is one of ivory-white woolen mixed with white peau de soie, and trimmed with a narrow band of marten fur around the edge of the skirt, also around the neck, wrists and corsage, the latter simulating a small jacket, opening over a long waistcoat, also bordered with a narrow edge of fur.

A large felt hat, trimmed with long ostrich feathers the shades of the fur, the front being confined by the and velvet ribbon loops and bows, and a tiny shirred muff of marten-brown velvet to match, complete the toilet. To wear with this gown there must be a long wrap, lined with white or a pale tint, which is thrown aside, of course, before entering the drawing-

OLD GOWNS.

A correspondent who has an "old, red silk dress," asks what to do with it, the silk, "what there is of it, being good," and she wants it for a "dress-up" dress. Combine it with silk of the same shade (or one that harmonizes with the old silk), spotted with large wafers of green velvet. Make a slightly trained skirt of the plain silk, facing the front and sides of the skirt about the bottom upon the right side with ten-inch-deep vandykes (inverted V's joined together) of the spotted silk, and border the edges with green ostrich feather bands. Border the train with the feather band. Have a long casque (a close-fitting sacque), with square pockets over the hips, opeuing over a plain, red vest. Have full paletot and cap, shown in Fig. 4. Brown | puffs of the spotted silk over plain sleeves | the edge of the basque and hooked into

of the red silk. The collar of the casque, high and flaring at the back, and faced with green velvet. Inside is worn a standing collar and square bib of Renaissance lace, with some small shells peeping from between the opening through the middle of the bib, of white silk muslin.

Another asks what to do with a lightweight, black, whipcord jacket, and a tancolored Henrietta dress with velvet sleeves, too dismantled for use as they are. Rip the dress apart carefully and have it dyed black. It pays to have this work done by a professional, if the material is nice. Rip up the jacket, and if it is like most whipcord, when sponged and pressed the wrong side will be a good-looking twilled material. This will make a nice bodice, with the addition of a little trimming. The Henrietta will make nice skirts, the style depending upon the way in which the skirt was previously cut. Cuffs, collar and vest of the Henrietta, braided with silk braid, would be a stylish finish for the waist, or the whipcord could be made into a jacket bodice, opening over a silk waistcoat or softly-folded vest. The velvet in the sleeves of the old dress, if not too much worn, can be dyed and restored and used upon the waist or perhaps for hat trimming.

HINTS FOR THE HOME PRESSMAKER.

The "lines" of a dress are very much discussed nowadays in dressmaking. The wise woman in matters of dress looks you over and says: "The lines of your dress are good;" or the reverse. She means that the design is artistic and suited to your figure, that the curves are in true proportion, and so on.

Fashion has always been blamed for what was really the lack of intelligence on the part of her would-be followers. With their dawning intelligence that there are fashions and fashions, enough for all and to spare, something to suit everybody, individuality is working to the fore, and the lines of one's gown are designed or adapted to suit, not a fashionplate figure, but herself.

The general design counts far more for or against the success of a dress or garment than the fabric used.

The skilful dressmaker proportious the various forms of the basque or polonaise for a stout woman so that no one or two forms shall be unusually wide. She carries side-back forms to the shoulder, instead of to the arm-hole, and as often as possible induces the customer to wear a gown that has the under-arm forms cut in one piece from arm to foot, and fitted to





the figure smoothly over the hip. A bccoming mode of arranging applied trimming, as wide passementerie, feather or fur trimming, where it is desirable to increase the apparent height of the wearer, is to have one continuous line from throat to hem (see Fig. 5.)

FIG. 4.

Where the dress is made with skirt and basque, the trimming can be used to border the skirt drapery, left loose from place after the dress is put on. If fur or feather trimming is put on in this way, the foundation of the part of the trimming that has to be hooked into place should be faced with a bias fold of silk or a piece of ribbon. 至一

The very long sleeves, that fit closely between the elbow and the wrist, are fastened with buttons and silk loops, made by button-holing with coarse twist, a double loop of the requisite size. The wrist and the edges of the opening are faced with stiffened lining muslin under the silk facing. All waist seams are now pressed open, and in nice dresses each side is bound with lute string. Twilled galloon (five cents per yard) is gathered slightly on the open seams for the bones; and every seam is boned, the whalebone being shaped to fit the curve of each seam by a hot iron, often being dipped in water.

The newest basques are much longer than for several seasons; the "basque," which, properly speaking, is the portion below the waist line, being in many cases cut separately and seamed onto the waist after the fashion of men's Prince Albert coats. The lower edges of an attractive cloth basque are cut in square tabs and bound. Before this is done the bottom of the basque should be faced with muslin, under the silk facing.

The neatest way of putting the belt on



a skirt (which is first carefully fitted, and hung upon a trial belt of a piece of lining muslin), is to turn down and "pink" the raw edges of the lining skirt, and sew it "overhand" upon the belt, the raw edges of which are turned in. The draperies are then sewed into place just over the edge of the belt, and the raw edges are covered with a piece of lute string stitched down upon each edge. Fashionable dressmakers who take pride in the finishing of work that goes from their facings of satin.





back are weighted in addition to being boned, to keep them in place. A wide bone shaped like a corset-steel, minus the fastenings, is covered with satin and oversewed along the under edge of the button side of the basque to keep it from sticking out, and also to prevent it wrinkling, as it will do when boned in the biases and not down the front.

PARIS LETTER.

The women of the present day have a vast choice of rich and varied materials wherewith to adorn themselves, writes Eliane de Marsy from Paris. There are the crepes, embroidered in Oriental style with gold beads and shaded silks; silk lace with velvet flowers and jewels, the wonderfully rich, raised gold work on shot velvet. Also, black brocades with large flowers, outlined with gold and jetted net over, or the same design in soft colors, such as tea rose, opal blue, covered with tulle to match, dotted with crystal or gold beads. There is black lace, with bayadere stripes (horizontal) of moire ribbon, edged with jet and emeralds; and crepes de Chine in all the exquisite pale shades of sky bluc, rose de Chine, aurore, vert de Nil (Nile green), embroidered with gold forget-me-knots or rosebuds, with a silk centre that shines like precious stones -a style of work that elevates the price to about \$800. Lastly, there are velours du Nord, and plush, rich and thick as sealskin, in such colors as feu, ruby, emerald green, etc.; and this material, beautiful in itself, is enhanced with superb gold marvelously worked in pearls, opals, rubies, emeralds, turquoises and diamonds (imitation, of course, but extremely good), or else trimmed with feather border, which is soft and becoming, or expensive furs, or ruches of mousseline de soie with gold picot (purl) edge.

Never have manufacturers attained such perfection, such variety, and by way of parenthesis, such costliness. But according to persons of true taste, all this imitation jewelry is only fit for the stage, or for those who do not possess family jewels. The creme de la creme, n'importe gnel pays (the most elegant people, no matter where), do not deck themselves out thus. The rage for this mock jewelry has also been carried out on the bonnets. singly.

or to match the velvet, is placed in front. These dressy little capotes are also made with a kind of large butterfly placed in front in diadem style, the wings folded back to rest on the hair; this, with an edge of black and pink curled feathers, two tufts of pink feathers and a small bow of gold ribbon in front, below the butterfly, comprise the dress bonnet of the moment. The doctors would call them a neuralgia trap at this season. Sometimes a plesse (plaiting) of pink crepe is used instead of velvet to support the bandeau of imitation jewelry. These stones are very effective at night, nestling in feathers and crepe, and showing off the wavy hair on which they rest, for frise (curled) or ondule (waved) hair is now demanded by fashion.

HERE, THERE AND EVERYWHERE.

Some of the newest theatre wraps are made in half length.

Ultra-fashionable women are having one-button gloves made to wear with the very long-sleeved gowns that are so fashionable.

A new muff of sealskin has gauntletlike pieces added about the openings for the hands, which give the wearer the appearance of having on deep gauntlet Knives and forks are not needed with sandgloves. It is exceedingly comfortable.

Artificial flowermakers in Paris earn from two to three shillings a day; but there is a long slack season. Fanmakers, in some instances, in Paris, earn as much as four shillings per day; and a good dressmaker, working by the day in private houses, earns about the same, if she does not have meals. But seamstresses (dressmakers or whiteworkers) earn from two shillings, six pence (forty cents), down to one shilling a day; and there is a season of at least two months in which there is no work at all.

A fashionable fancy is to have one's card-case, purse and gloves made to

Fetching evening dresses, made lownecked, have long sleeve puffs attached to the bodice only half of the way around, exposing the upper part of the arm.

Those who have tried having two pairs of everyday boots, wearing them alternately, and using a little vaseline in place of blacking, are amazed at the difference in their durability over two pairs bought

English dealers in ladies' underwear show new woolen night gowns, made of a pretty pink tone, which wash well. They are trimmed with torchon lace, and the sleeves are full and high on the shoul-

ANSWERS TO CORRESPONDENTS.

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"MARY, QUEEN OF SCOTS."-You have chosen a character for the fancy ball that must bo handsomely dressed to be a success. The dress should be a plain skirt, open in front over a white satin petticoat, quilted with pearls, velvet bodice filled in at the throat with a satin habit shirt; close ruff around the throat, ruffles at wrist. Velvet caif edged with pearls, veil floating at back, pearl girdle.

"KATYDID."-You did not enclose the lock of hair, so I cannot tell you the color. You should have no difficulty in seeing the color of your hair for yourself, however. Read recent numbers of the Companion for suggestions for wedding dress. A ruching of silk, with pinked edges about the foot, and bodico trimming to match, would be pretty on white cashmere. A bride does not carry a handkerchief different from anyone else. Brides carry only white hlossoms. The bridegroom may wear one small bud in the lapel of his coat. See January first issue for a pretty style for a black silk dress. A feather-trimmed toque will be pretty, with or without strings. Wear whatever is most becoming in headwear. Your mother and father should receive with you. Do not "pass refreshments." Have sandwiches (made very small and daintily, with minced, not sliced meats), small fancy



cakes and coffee, or coffee and cakes and icecream. Have these on a table, the plates in a pile, napkins in a pile, etc.; and let the gentlemen wait upon the ladies, who sit or stand about the room, but not at the table. The coffee should he in a large urn, and some one person should serve it as required. Or you could have cake and lemonade, serving the latter in a mammoth punch-bowl. A servant or someone must he in readiness to remove soiled dishes, replenish the table, and so on. wiches; they are taken in the fingers.



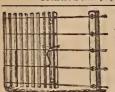
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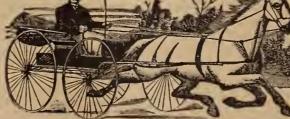
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ARM AND FIRESIDE is frequently enlarged from its regular size of sixteen pages in order to supply the demands of our advertising patrons with more space. This issue contains extra pages. Rather than crowd out reading matter, the paper is enlarged and ample space given for additional reading matter, so that the subscribers get their full share of the extra pages. As a return favor for giving them more than promised, we ask our readers never to fail mentioning this paper when they write to its advertisers. It is a little favor that will be appreciated by both advertisers and publishers. The extra pages of this issue cause a rearrangement of some of the departments. The "Extracts from Correspondence" will be found on page 202.

HE Ohio State University is one of forty-two colleges founded on grants of land-scrip made by the Morrill act of Congress, passed in 1862, for the establishment of

At least one college where the leading object shall be, without excluding scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life.

As supplementary to this act, Senator Morrill last year introduced and had passed an act

To apply a portion of the proceeds of the public lands to the more complete endowment nd support of the colleges for the benefit of agriculture and the mechanic arts, established under the provisions of an act of Congress, approved July 2, 1862.

The appropriation to each land grant college nuder this act is \$15,000 for the year ending June, 1890, \$16,000 this year, \$17,000 next year, and so on until the amount reaches \$25,000, which is to be continued indefinitely. The 1890 act contained this

No money shall be paid out under this act to any state or territory for the support and maintenance of a college where a distinction of race or color is made in the admission of students; but the establishment and maintenance of such colleges separately, for white aud colored students, shall be held to be a

compliance with the provisions of this act. Then, to meet the special case of Alabama, where colored students are not admitted to the land grant agricultural college, but where there is a separate institution for their education in agriculture and the mechanic arts, the following amendment to the original bill was adopted:

In any state in which there has been one college established in pursuance of the act of

iustitution of like character has been established, or shall be hereafter established, for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the act to which this is an amendment, the legislature of such state may propose and report to the Secretary of the Interior a just and equitable division of the fund to be received under this act, between one college for white students and one institution for colored students, established as aforesaid, which shall be divided into two parts and paid accordingly. And thereupon such institution for colored students shall be entitled to the benefits of this act and subject to its provisions as much as it would have been if it had been included under the act of 1862; and the fulfillment of the foregoing provisions shall be taken as a compliance with the provisiou in reference to colored students.

Misconstruing this amendment, the Ohio Senate committee on universities and colleges has recommended an equal division of the recent congressional grant between the Ohio State University and Wilberforce University, in compliance with the demand of the latter.

While FARM AND FIRESIDE has not hesitated, in the past, to express the opinion that the Ohio State University was not doing what it ought to do for agriculture, and that it was drifting away from the objects and purposes for which it was founded, it is emphatically opposed to this contemplated division of the endowment fund.

In the first place, it is illegal. The amendment does not apply to this state. In the land grant college of Ohio, colored students have always been admitted on equal terms with the white, and have never been debarred from any of the privileges of the institution. The law provides for the division of the fund only in states where the two colors are educated in scparate institutions. In fact, the Secretary of the Interior cannot, under the circumstances, divide the congressional grant to the State of Ohio without violating the law.

In the second place, Wilberforce has no just claim to any part of the graut. It is a denominational school. But for the present we pass over the objection that it is wrong in policy and principle to divide public school funds for the benefit of any sectarian institution, white or colored, whether Methodist or Presbyterian, Protestant or Catholic. Wilberforce is not an institution for agriculture and the mechanic arts. It never has had facilities for teaching agriculture, and does not, as far as we have learned, even promise to give instruction in agriculture in the future, provided it secures a portion of the fund. The only way for it to be justly entitled to any portion of the congressional grant will be for the Ohio State University to reorganize as an institutiou for whites only, and for Wilberforce University to reorganize as an agricultural and mechanical college for colored students only.

Again, in Ohio there does not exist the slightest necessity for a division of these school funds. Colored students who really desire to take a course in agriculture or the mechanic arts could and would go to the State University rather than to a sectarian institution that has not and does not expect to have adequate facilities for instruction in such branches. A division of the national endowment fund would divert it from the purpose for which it is intended, and fritter it away.

institution in the state that is legally entitled to the benefits of the Morrill act, and the only one that can apply the national endowment fund for the benefit of agriculture and the mechanic arts.

T sometimes happens that factory employes, or clerks in city stores and people in similar occupations, come to the conclusion that they could make a living much easier by growing vegetables for market than in their legitimate calling. The supposed independence of the soil worker is a great temptation, and success seems so certain and easy from the instructions they have read in horticultural books and papers, that the next thing we receive a letter something like this: "I have twenty-five acres of good, tillable ground, six miles from market. What would be the best thing for me to tnrn my attention to, to make the most money? I am not a practical farmer or gardener, but am willing to learn." Or perhaps the letter reads: "I am a young man, clerk in a store, without practical experience in gardening, but have read some books on the subject, and horticultural papers, and tried to study up, with the idea of growing vegetables for market. How many acres will it take to afford a man a decent living and a little to lay by for a rainy day? What are the most profitable crops. What is the best location?"

Of course, we cannot give definite replies to such questions, simply because it would be nothing more than shooting in the dark, and because we would be more liable to do mischief than good by any attempt to give a definite answer. Success in market gardening cannot be attained without a great deal of experience and hard work, and proper regard for the surrounding conditions and available markets. What would pay largely in one place might result in loss in another.

Before anyone could engage in market gardening with any prospest of making a fair living by it, he must learn by practical experience how to produce good vegetables in the cheapest way; and when he has learned this, he should study his available market and see what produce his market demands, and then try to grow just that produce, and to dispose of it to the best advantage. Skill, good judgment, perseverance and a great deal of experience, with hard work, are indispensable requisites of the business. The only way to success for a young man leads through an apprenticeship in the employ of a good and successful gardener near a large market. The "smart" young fellow who imagines that his smartness and education will serve him in place of practical experience, invariably comes to grief when he embarks in a business as complicated as that of market gardening.

E have received numerous inquiries about sugar beet culture. The Department of Agriculture, Washington, D. C., has published bulletins that contain the latest and best information on the subject. As our inquirers can flud so much more information in these bulletins than it is possible to give in our limited space, they are advised to obtain them. These inquiries show a growing desire among farmers to diversify their crops, and their attention has been turned to sugar beet culture as it promises, in the right localities, to be a July 2, 1862, and also in which an educational The Ohio State University is the only profitable substitute for some of the staple principal causes of its failure.

crops, of which there is now an overproduction. So many inquirers seem to have the idea that they can go into the business on a small scale, and want to know how to go about it. The production of beet sugar is an entirely different thing from maple sugar. It cannot be profitably produced on a small scale. It will be a waste of money to engage in it in that way. Success is promised only where there is co-operation among growers, and a large plant established, with all conditions favorable.

Before investing any money, study the publications referred to. Money can be saved by so doing. Every attempt that ends in a failure is a drawback to the ultimate success of the industry in general. Keep out of the business unless climate, soil, water, transportation facilities and all other conditions are favorable.

It is reported that the Oxnards, who built the bect sugar factory at Grand Island, Nebraska, have established another large one in Los Angeles county, California, where it is claimed that there are over one hundred thousand acres of land admirably adapted to sugar beet culture.

SUBSCRIBER sends a long communication on the silver question, the first and main point of which reads as follows: "The inevitable and almost immediate effect of nnrestricted and free silver coinage by the United States will be to raise the price of silver bullion in New York and Philadelphia to its par value of about \$1.29 an ounce, as compared with and in exchange for the United States silver dollar."

How does he know that free coinage will raise the price of silver bullion to its par value? That is the very point about which there is a difference of opiniou between the honest men on both sides. This correspondent is evidently an honest advocate of free silver coinage, because he does not contend for depreciated money. He does not want a bob-tailed seventyfive-cent dollar, as many others do. It is his honest opinion that free coinage will place the silver dollar on a par with the gold dollar. But it is only an opinion. If it were a certainty, congress would have ' passed a free silver coinage bill months and months ago. If silver were worth \$1.29 an ounce there would be no trouble in getting a free silver coinage law. The strongest opposition to free and unlimited silver coinage comes from thoughtful men in every line of business, who want a sound currency, and believe in honest money, but do not think free coinage would raise silver to par. Wage workers and farmers would be the greatest sufferers from a depreciated currency, and they are wakening up to a sense of the danger they have escaped from. Judging from the trend of public opinion as expressed in the press, there are not nearly as many advocates of free silver coinage now as there were three months ago.

It is not often that an ex-president has the opportunity of vetoing a bill before congress, but Cleveland seems to have enjoyed that distinction. His letter against free and unlimited silver coinage was practically a premature veto on the bill pending before congress. It had the effect of arousing the anti-silver coinage congressmen of his party to active opposition to the measure and was one of the

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small towns.

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Our Farm.

SUGGESTIONS FROM THE EXPERIMENT STATIONS.

BY JOSEPH (T. GREINER.)

SPARAGUS OBSERVATIONS .--Every gardener is probably aware that some asparagus plants only bear flowers, but no seed, while others produce seed. The

former are the male plants, the latter the female plants. For a long time it has been a disputed question whether the male plants give stronger shoots, and more of them, than the female, or not. Our friend, Prof. W. J. Green, of the Ohio Station, has practically settled this question by experiments made in 1889 and 1890. As reported in bulletin for October, 1890, he has found that male asparagus is about 50 per cent more productive than female plants, and the shoots being larger, have a greater market value. The gain from male plants is especially large in the earlier part of the season, or just when the "grass" sells at a larger price. To make this information of real, practical value, we need one thing more; namely, directions how to tell the one kind of plants from the other in the seed-bed, or in a lot of purchased plants. We will wish to set male plants only, and to throw the less productive female plants away. If we could do this, we might make our plantations much more productive and more profitable. Who can give us a hint?

Prof. Green also speaks out once more in favor of rubber bands for bunching asparagus. The extra expense, he says, is more than counterbalanced by the time saved, while the bunches have a neater appearance, hold together and bear handling better in marketing. The method employed in bunching with rubber bands is to slip a band over an ordinary teacupone with straight sides and without handles-fill the cup with asparagus shoots, heads downward, and then slip the band from the cup over the bunch. This makes a bunch of about the right size, and gives the upper end a nicely rounded appearance. All that remains to be done is to slip on another band, and to square the butts with a sharp knife. The size of rubber band best adapted to the purpose runs about two thousand bands per pound, and a pound can be bought for about two dollars.

TRANSPLANTING ONIONS. - The same bulletin contains an interesting article on the advantages of transplanting onions over the old method of growing them from seed sown in open ground. "Transplanting onions," says Prof. Green, "increased the yield one hundred per cent in some cases, and gave a decided gain with all varieties. The varieties that gave the

White Victoria. Those showing the smallest gain were Danvers, Wethersfield and Michigan. The transplanted onions were larger and more uniform in size than those grown from seed sowu in the open ground. The extra labor involved in transplanting was offset by the saving of labor in weeding. The increase in crop, without a corresponding increase in labor, lessened the cost per bushel in production.'

PEACH GROWING .- The December bulletin of the Tennessee Station, at Knoxville, tells of the various frnit trees under test at the station grounds. In regard to peaches, I see that the Tennessee people have the same difficulty to contend with that growers in many other sections-for instance, here in western New York-have to face; namely, the destruction of the fruit buds or blossoms by late frosts. This might be avoided to a certain extent, says the bulletin, by planting on northern exposures. I think it does not admit of a particle of doubt that peach growing would be one of the most profitable branches of horticulture if we could only secure the crops. At the last meeting of the Ontario Fruit Growers' Association, at Hamilton, Ontario, Mr. S. D. Willard, the skilful Geneva (N. Y.) fruit grower, advised to plant none but hardy sorts; that is, sorts hardy in fruit bud, and named among them the following: Hill's Chili, Morris' White, Red Cheek, Mellacatune, Early Rivers, Horton's River (a freestone), Hyne's Surprise (also a freestone), Yellow St. John, and perhaps Garfield or Brigdon. There are plenty of localities—as, for instance, many sections bordering on lakes and other large bodies of water-where peaches are a certain crop, even with less hardy varieties. Such chances should not

lever, C. The two small posts at each end of the trough serve as guides to the cover, and are connected at the top with an iron bolt. After the slop is poured in, the cover is raised and held up by pulling down the lever and putting it under the the hook, D. The arrangement is an excellent one. One old sow cannot get up in the trough and "act the hog" while the slop is being poured in.

BEE ITEMS.

There is nothing about a farm that will better reward the intelligent farmer than a few colonies of bees, well kept. Management is what you want now.

THE HIVE.

The hive should be a frame one of some standard make; or, in other words, the size of frame of a standard make, as the Langstroth frame, which is in universal use, and seems to be just the thing. The Simplicity hive is perhaps the best in use, as it takes in the Langstroth frame, giving smooth inside walls, and can be used as one story or ten stories, if wanted.

THE BEES.

If your bees are in a frame hive you are on the road to success. If not in frame hives, I would advise you to change them the first warm day when the fruit trees are in bloom. Smoke the old hive thoroughly, then turn it bottom up and have another box that will fit the old hive. Fasten with cleats on each side to keep it steady, and with a couple of sticks drum on each side of the hive for ten or fifteen minutes, at intervals, and you will now have nearly all of your bees from the old hive in the box. Knock off the cleats and set your box of bees to one side. Carebe left unimproved. The country will fully take off one side of the old hive and

Hog-Trough.

money in growing it.

LIME FOR POTATO ROT .- The old prescription for putting a stop to rot in potatoes put in storage, was to sprinkle them with air-slacked lime. The Massachusetts Experiment Station (Amherst) has investigated this matter, and reports, in bulletin for January, 1891, that in samples treated with and without lime (some stored in an ordinary cellar, others in a granary), the differences in the amount of rot are very small. In the case of the cellar samples, the tubers untreated kept even slightly better than those which were limed; but in the granary samples the reverse was the case. Altogether, the station people do not feel justified in pronouncing either for or against the treatment. Thus, one after another, the old notions are upset.

TEST OF HAY CAPS.—The Massachusetts station also tested three kinds of hay caps -plain cotton caps, oiled cotton caps and Symmes' patent caps. Cocks covered with these caps were out during a thunder shower. The conclusions drawn by the statiou are as follows: The condition of the hay under the plain cotton cap (heavy material) was decidedly the best, but it was recognized that with a heavier rain this might not be the case. The Symmes caps are easily put on, but they are clumsy and heavy, and to carry a quantity to a field and distribute them, requires far more labor than for the cotton caps. Neither were they found to be durable, nor sure to remain in place during stormy winds. From the single test, the plain, heavy cotton cap appears to be the best.

HOG-TROUGH.

Mr. J. Wiley, Indiana, sends a description of a convenient hog-trough, which is fully explained by the accompanying cut.

need the fruit, and the growers will find cut out the combs. Take a frame from your new hive and lay it ou a smooth board, laying the comb underneath; cut around on the inside of frame with a sharp knife, to make the comb fit the frame. If the comb is not long enough for the frame, put in pieces of worker-comb. as you don't want much drone-comb. When the frame is full of comb (if in pieces), take fine, thread-wire and wrap it around the frame on the outside to hold the comb in place; this is best done when the comb is lying flat. I have tried every known device for fastening combs in frames, and I find thread-wire perfection for that purpose.

Now, place your full frame in the new hive and follow with the others. When new hive, straight and nice, one and three eighths inches apart from center to center. and the bottom board in place and the lid on the hive, take your box of bees and empty them in front of the hive; they will all enter in a few minutes, and the work is doue. Combs full of honey, especially if they are thick combs, I would leave out. They can be uncapped and fed in the top of the hive to the bees, unless the combs have brood in them; in that case I would put them in the hive with the frames. Transferring should not take over forty or fifty minutes, and I am sure you will be pleased with the change. The wire can be removed from the combs any time during the summer, but it is not necessary that it should ever be removed, as it does not interfere with the work of the bees.

FEEDING BEES.

If colonies are light in stores, they should be fed, now, with sugar sirupthree pints of sugar and one and one half pints of water. Let it come to a boil and cool before using. For spring feeding A is a V-shaped trough, and B is a board I prefer it quite thin. To make a good

a muslin cloth over the mouth and invert it over the cluster where the bees are strong in numbers. Take any nice box, ten inches square, or less, and tack on for a bottom a piece of heavy cotton-bedticking is better. The top can be open if preferred, putting in a few pieces of brokeu comb to keep the bees from drowning. Stick a few holes in the ticking with a table-fork. Put the tacks in about one inch apart, and draw the ticking tight over the edge of the box. Set the box over the bees and pour in the sirup. If the weather is warm enough the box will soon be full of bees.

HONEY BOARDS.

In all double-story, frame hives there is a board with holes or slots in it to separate the top frames from the lower, to prevent, also, the bees from joining the combs. This board is a nuisance. Some bee-keepers use a picce of oilcloth, which is tolerably good, but is offensive to the bees. The best one is made of a piece of cotton drilling the size of the hive from outside to outside. Take a lump of beeswax, break it up into small pieces, spread it around over the cloth, and with a hot smoothing iron melt the wax and iron it into the cloth until it is well covered. Cut one or more slots in the cloth and iron down the edges like a hem, and you have something that is perfection as a honey cloth, that will last for years, and that the bees will not cnt. OLD BEE-KEEPER. Maysville, Ky.

FRUIT HYBRIDS.

I beg Prof. Lazenby's pardon. I cannot accept his assertion that I made any "sweeping assertions" in my late articles on hybrids among fruits. I felt all the time I was writing them that I was not sweeping deep enough and clean enough. I wrote by the book, for within twenty miles of where I write this, tens of thousands of hybrids between distinct species of the same families, and between species of widely separate families and orders, may be seen growing any day in the year, and it has been proven constantly by Luther Burbank, of this county, that what I wrote was exactly true; namely, that the limit of successful hybridity between plants of different species, groups, genera and orders, cannot be known until it is tried and tested rightly. Rightly is the point; hundreds might try and fail where the master hand would succeed without trouble; and Mr. Burbank's successful manipulations, show us that he who carries the right key and has the skill to throw back the bolts, can open up the door and allow man to gain nearly any point desired from vegetable life.

The Professor himself did make, in his late article on "The Production of Hybrids," a sweeping assertion that the facts do not seem to warrant, when he says: "As a rule, it is only varieties of the same species that interbreed freely." The proof seems to be that this is far from being correct. We have many distinct species in nature that pollinate each other freely, but cannot possibly pollinate themselves. Or in other words, nature has some species so arranged that it is not possible for the pollen of a species ever to reach its own stigmas, and they are absolutely infertile with their own pollen if placed on the the frames, full of combs, are all in the stigma artificially; in fact, the flower's own pollen is poisonous to its own stigma, nor will the pollen from flowers of any other variety of the same species pollinate its stigmas; it must have pollen from the species of another genus, and in some cases from a widely different order. So we see it is not true that crossing represses variation. If there is even one general rule, or any rule in botany or vegetable physiology that there are not marked exceptions to, I have failed to know of such. So broad assertions, if we have facts to back them, should not invite criticism. Yet Prof. Lazenby does invite criticism on both the following statements: namely, "The most characteristic feature of hybrids * * * is a very low degree of reproductive power." And again: "In the animal kingdom, nearly all the the well known examples of hybridity are sterile," neither of which are true, especially, nor iu the abstract; some are, others not; the great majority of hybrid plants are not, the few are; and even they possibly not, when they are in reach of a right consort. A few hybrids in plants have faulty generative organs; so, also, a few have that best results were Pompeii, Prizetaker and cover arranged to raise and lower by the feeder, fill a glass tumbler with sirup, tie are bred naturally in nature's woods.

Some of the most enormously productive, healthy and vigorous fruit plants I ever saw were hybrids between species of Rubus belonging to widely separate groups, thousands of them fruiting en

Hybrids between animals are not, so far as known, sterile per se. I gave the plain and simple reason why they are classed as sterile; namely, the great mass of them that are, do not breed because they have no generative desire for each other, or for either parent species as a rule. Therefore, "sweeping assertions" in hybridity aud crossing are both safe and unsafe, and we should not smother up so useful a thing that we all know so little about, in criticisms. The endeavor should be to make the scieuce of crossing as simple as possible, so that the practical man will become interested in it, and experi-

Volumes might be written on the special points of the science of hybridity. We, as yet, know little or nothing about it. Let us see how lame we are. Among other things it has often been asserted that a hybrid between the apple and pearclosely related species of the same familycannot be obtained. What proof have we? It has often been tried without success. How do we know there was not success? For the proof is good that in some plants the female side is so strongly prepotent. while you have some idle time. If you that the male element has no effect whatever on the resulting progeny. That is, we might pollinate a pear blossom with apple, quince, crab, mountain ash pollen, or from any other species of the sub genus pyrus, and the resulting seeds will all produce normal pear trees. Yet, there may be pollen that would break the pear all up, and it would be safe to look for it in the pear species of East Asia. Then, when once broke, the pollen of the other species of the family might get in their work on the progeny. So we see that it is not safe either to generalize dogmatically when we are trying to write of hybridity.

I am greatly pleased to learn that our experiment stations are making experiments in this important branch. The experiment detailed in Prof Lazenby's paper does me a world of good, for, when I wrote five years ago, only five, that I knew the cherry would pollinate the plum to a limited extent naturally in the open air, I was laughed at all over the country as a crank, or possibly worse. Who is doing the laughing now? Let the students at our experiment stations have full swing, and do not tell them they cannot do this and that, for no one, as yet, knows what can be done in hybridity. D. B. WIER.

Sonoma county, Cal.

THE "PAINTED" WOOD-PILE.

The wood-pile is a farm factor of great importance, and whoever neglects it quarrels with his dinner, and may be compelled to contend with hunger.

Near cities farmers may burn coal, but generally the fuel is wood, in spite of the cry of the alarmists who declare that the forests are receding and soon will disappear. The wood-pile may serve as a sign, and make known the methods of the farmer. If the pile be big in spring, then it is known that the owner does not intend to be disturbed in the busy season about ten o'clock in the morning, by the cry from the house, "If you want any dinner, you must cut some wood,"

If there be only a chopping-block and a few uncut sticks lying around, then it is evident that the housekeeper, in addition to other cares, must worry about the fuel supply. A wood-pile may be picturesque -a thing of beauty and a joy, not forever. but while it lasts.

In a farm-house yard, in the angle made by the ell and the main part, is an extraordinary wood-pile, which about this time of the year begins to receive attention. If you are riding by, you may stop to admire and to exclaim, "Well, I never saw a painted wood-pile before."

When the pile has reached the proper size, the outside sticks are laid the same way, as near perpendicular as possible. Then on these, laid in the same way, is another course of sticks. The painted appearance comes from this arrangement: The first course of sticks is composed of dark-skinned woods with the bark to the weather, and the next row may be inside sticks, or wood without bark. A row of white birches makes another course, and dark apple trees another.

Thus, the different bands of color alternate till the top be reached. The result is a loaf-shaped pile, which, at a distance, appears like an inverted bowl of painted china. On the house side is the opening from which the daily supply is obtained, but the part to the roadside remains intact the greater part of the winter. The wood ought to be indoors, but if that be impossible, it should be arranged as described. If no attention be given to "painting" it, the outside sticks, if not all of them, should be laid perpendicularly. In this way the rain is quickly shed, and the inside remains dry.

Wood cutting may be regarded as most uninteresting farm work, without a cheerful feature in it anywhere; but, like everything tedious and monotonous, a little ingenuity will help to brighten. "Painting the wood-pile," has interested many boys, for the pile referred to has been copied. GEORGE APPLETON.

MARTINS.

Every farmer who desires to make his home attractive and pleasant for himself and family, should not fail to provide a home for the martins. They are always cheerful, happy and gay, and their merry prattle is welcomed by everyone. Besides this, they are said to be good to keep away chicken hawks. Make your boxes now, will take the trouble to dress the lumber and paint the box, you will be amply repaid for your work, for every day through the spring and summer they will remind you of what you have done for W. J.

A CHEAP WHEELBARROW.

Mr. P. Brugger, South Dakota, sends us a description of a cheap wheelbarrow that the soil and local experience of

Few if any grains require such careful treatment of the soil as barley, but the benefit in the crop will be proportionate and the land will be left in good condition for a succeeding crop, which with us has usually been oats. It is also in excellent condition to seed down when the barley is sown, this being a favorable crop for that purpose.

As to harvesting, there are various ways. The point to have in view is to secure as bright and plump a berry as possible avoiding, therefore, overripeness and im maturity, and cutting when the berry i ripe and somewhat hard. As soon & wilted and dry outside, put in small cock covering with the hay-cap and keep I till cured, when both straw and berry w show a cleau, light-yellow color.—Count Gentleman.

BROOM CORN.

A rich soil will produce a flourishi growth, and if clayey, covered with ch or new turned sod, should be well rol after deep plowing and harrowing h been performed. While broom com been successfully raised on newly-buo prairie, the growth is likely to be I coarse and to run to unprofitable sta the perfect pulverization of the soil sh be, therefore, the first object at whit h to aim, and a rolling surface should be choseu rather than a flat one, on w hich water might collect and stagnate di tring the wet seasons, thereby giving a si ckly, unhealthy appearance to the bru sb, destroying its vitality and rendering it ascant, brittle and unsalable.

Of the various varieties the Cl timese, California and Missouri evergree in are most in demand. In deciding this important point, however, the nati Tre of

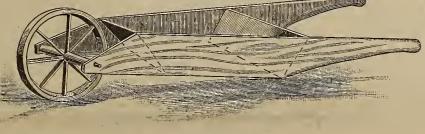
as kindly dome her share, the result will be a handsonie growth, which, properly harvested and cured, will be worth the highest market price. It should be cut while still green, and when, at slight pressure, milk exudes from the seed; if left later the tips turn red or brown, and should the ripe, standing corn receive a shower, nay even become black. Color will largely determine the value of the brush, and the judgment shown at this critical period will decide whether our brush ranks as No. 1 hurl or carpet, or as low grade or inferior, at a discount of fifty per cent. Having paid careful attention to this feature, the scraping and curing must now be looked to.

The stalks should be left four to six inches long, which will make it more desirable, and the brush selected by handfuls and divided into long or short, crooked, fine, medium or coarse, straight brush. This facilitates scraping and also bailing the various grades separately. The scraper may be, according to the acreage, horse power or home-made. In the latter case a barrel or smooth section of a log may serve as a cylinder, studded with points not too blunt or angular, as otherwise, or from holding brush too long against the cylinder, the corn may be torn or ragged. It will be mistaken economy to leave the seed on the brush to add to the weight, as the depreciation from waste would be great; and after seed has been selected for the next season or for sale, the balance may be profitably used for feed or manure. After scraping, it should be immediately taken to the

The sheds must be open at the sides and ends for free circulation of air, and, if provided with canvas or folding doors, as a protection against rough weather, will be more complete. The brush should not be allowed to lie in the field after cutting, which would turn it yellow or whiten it, but immediately after scraping should be placed on slats in the sheds, each layer a few inches thick, with seven to eight inches between them, and when thoroughly dry, which will remove any danger of must or sweating in the bale, is ready for baling. This should be well anti solidly performed in a broom or hay press that will turn out a bale of two brundred and fifty or three hundred pounds. Armfuls should be laid alternately each way, and when the brush is short, a little occasionally in the middle to hold it together.

Each grade should be baled separately, and, after compression, strongly secured with No. 9 fence wires, as care at this stage will lower freight and storage charges, since a railroad car will hold two tons more of well-baled corn, and it will arrive at its destination secure and attractive in appearance.

To summarize: Nature of soil, plowing and preparing it, planting poor seed at improper distances apart or at unequal depth, partial cultivation, stalks too long, harvesting too late, leaving seed on or scraping too close, allowing it to lie in the field, improper or partial curing, baling agnot" or insecurely are the chapter of aceidents which will, if overlooked, prove fatal to the successful culture of broom corn.—Exchange.



A CHEAP WHEELBARROW.

common carpenter tools. The accompanying cut needs no explanation. The sideboards are made from planks six feet long and sixteen inches wide. The bottom and end pieces are also made out of wide, pine boards. No legs are needed.

CULTURE OF BARLEY.

The best soil to grow wheat is also the best for barley. This is a rich clay loam, both plants requiring compactness and fineness of mould. Light soil, whether of a peaty or sandy character, will not do: neither will sod, nor any ground charged highly with vegetable material. On the homestead, barley was largely grown and tried on all kinds of soil. Sometimes it would succeed on sod, producing a very heavy growth, but usually the berry was lighter and the straw weaker and more disposed to lodge than on the same soil if stubble or fallow, especially in a moist season. Besides, my experience is that it matures unevenly on sod-ripe grain and grain in the milk occurring at the same

Like wheat, barley is a hardy plant, doing best in a cool climate. It is therefore adapted to early sowing, and this it requires so as to mature before the heat of advanced summer sets in, which, in connection with drouth, is always a serious hurt to this grain. I have known in severe cases a total loss of the crop. All this is avoided by sowing early in the spring. It can hardly be put out too early in this latitude, if the ground is mellow and dry enough. This will fit it to be cut by about the beginning of July-the straw bright and strong and the berry

Barley, although a hardy plant like wheat, is also exacting, requiring not only a fine, compact mould, clean and well enriched, but thorough drainage. A hoed crop, if kept clean, is a good preparation, in general needing only cultivating and harrowing in the spring (no plowing) before sowing. Sow a bushel and a peck broadcast per acre and cover with a smoothing harrow—or a bushel if drilled by C, I, HOOD & CO., Lowell, Mass, by C, I, H in, if the ground is rich, as it should be.

can be made by any farmer handy with growers should be carefully review ed. Whatever seed is selected must poss less strong vitality (which should be tested Thefore sowing) and be chosen from the fi mest growths. A gallon and a half will p land four acres, which will produce, on the average, a ton of corn. In sowing, the seed should be distributed with regul arity and at equal depth to obviate cutt img a second time. The number of seeds to a hill may be three or four, and the di stance apart three feet; but in this respect, judgment and experience must decide, as, if the nature of the soil be not tak en into account the brush will be too coarse or too small to be considered the best

So soon as the germ sprouts, and for a month later, the soil should be diligently cultivated and hoed, unless the land is new and free from weeds, which otherwise rob the green shoot of its nutrition and sap its very life. If these conditions have been complied with, and nature

the dehilitating effects of spring weather. At no other season is the hitter taste in the mouth more prominent, the breath so offensive, the drowsy dizziness so frequent, or that extreme tired feeling so prevalent. Hood's Sarsaparilla is just the medicine to build up the system, purify the blood, cure bilionsness and headache, overcome that tired feeling and create a good appetite.

Hood's Sarsaparilla

"For a first-class spring medicine my wife and I think very highly of Hood's Sarsaparilla. We both took it last spring. It did us a great deal of good and we felt better through the hot weather than ever hefore. It cured my wife of sick headache, from which she has suffered a great deal, and relieved me of a dizzy, tired feeling. I think everyone ought to take something to purify the blood before the hot weather comes on, and we shall take Hood's Sarsaparilla this J. H. PEARCE, Supt. Granite Ry. Co., Con-

Hood's Sarsaparilla is the best blood purifier before the public. It eradicates scrofula and all humors, cures salt rheum, boils, pimples, etc. The severest cases of blood poisoning have yielded to its superior curative power.

"This is to certify that I have used Hood's Sarsaparilla in my family for some time past and have found it to be a good blood purifier." ROBERT A. SNITH, Justice of the Peace, Honesdale, Pa.

The Spring Medicine

"I wish to enroll my name as one of those who have derived health from the use of Hood's Sarsaparilla. For many years I have taken it, especially in the early spring, when I am troubled with dizziness, dullness, unpleasant taste in my mouth in the morning. It removes this bad taste, relieves my headache and makes me feel greatly refreshed. The two bottles I have used this spring have been worth a dollar a dose. I advise all my friends to take it." JOHN BINNS, 663 42d Street, town of Lake, Chicago,

Hood's Sarsaparilla

100 Doses One Dollar

100 Doses One Dollar

Our Farm.

NOTES FROM MY HOME GARDEN. BY JOSEPH.



least bottom heat in a hotbed gives all the warmth needed for the strong growth of hardy plants and security against injury by cold. At the same time we can get all the soil we may need for the

beds right from the open ground, if we have not provided a supply of such soil iu the fall and stored where safe from freezing. In short, this is just the season when people can raise their own cabbage, cauliflower, lettuce and similar plants, and a home supply of nice radishes, spinach, lettuce, etc., under glass without much trouble.

It will not be necessary, this year, to pack down two feet or over of fermenting horse manure into the bottom of the hotbeds for the more hardy things. A foot or eighteen inches will be fully sufficient, especially if the material consists largely of clear horse droppings and but little litter. If available, I would add some dry forest'leaves, say about one third (in bulk) as much as the manure. This tempers the mixture, and gives a more moderate and lasting heat. I always make provision for this supply of leaves in late autumn, when I have the dry leaves carefully raked together in piles and then taken to the poultry-house, or stored in some outbuilding.

A mistake made by almost every beginner, is to get the soil too far below the glass. Always make allowance for the settling of the manure, especially in the center of the bed; here it should be well rounding, or else packed down more solid than at the sides. A rounding (convex) bed would be preferable to a concave one (sunk in the middle), but it will take more material in center than you imagine, if you wish to prevent its sagging or caving in. Fermentation makes fresh manure settle down very rapidly. For this reason the heating material should be well packed down and the bed filled up to within a few inches of the top of frame, so that there is just room enough for the soil on top. When this is put on, to the depth of, say, four or five inches, the wbole will have settled enough to allow two or three inches of space between the glass and the surface of the soil. This, at first, is enough for most purposes. The settling gradually continues, and will give room enough for the plants to grow when such room is needed. Thus you get all the benefit from sun and light, and your plants will grow short and stocky, instead of giving you the spindling things usually found in amateur hot-beds, where the surface of the bed is eight or ten incbes below the glass.

In a bed properly constructed, it is the easiest thing in the world to grow a good supply of fresh, crisp radishes for the table. Often the space between each two rows of other plants-lettuce, 'spinach, cabbage or celery plants, carrots, beets, etc.-may thus profitably be utilized for a row of radishes, which will be off in three or four weeks, when their room is needed for the others. Any of the "earliest forcing" radishes-Round Scarlets, Early Erfurts, White-tipped Scarlets or Olive, Carmine Forcing, etc.-are good for this purpose, and practically there is not such a very great difference between any two of them.

Highly interesting in this connection is what Prof. W. J. Green (Ohio Experiment Station) wrote me a few weeks ago: "We are transplanting radishes. This may not be new, but we never heard of it before. With the turnip-rooted sorts it is a paying operation. It saves a week or ten days time in the occupancy of the bed or frame, and insures uniformity in size and time of maturity. Often we can clear the bed at one pulling, and in eighteen to twenty days from time of transplanting. The roots vary so little in size that they sell more readily, and at a better price. We think, for the same reason, that it pays to much, and the growth is wasted. It might

transplant lettuce thrice, instead of once. Of course, I refer to greenhouse work altogether."

This is a very interesting item-as interesting as anything that comes from Mr. Green's pen, which is very prolific in the production of real good things-and of especial value to the market grower.

RAISING EARLY CABBAGE PLANTS.—This mild season I think we can raise good, early cabbage plants, even in cold-frames. Seed should be sown at once. I have tried many kinds for earliest use, but think there is nothing better yet than Early Jersey Wakefield. Have the frame in a well-protected situation, with soil up to three or four inches from the glass, as you will not have to make allowance for settling, and sow seed thinly in rows about four inches apart, leaving not more than one plant to the incb of row. The chief point of importance is the proper hardening of the plants, by exposure, before they are set in open ground. Cauliflowers may be handled the same way.

Orchard and Small Fruits. CONDUCTED BY SAMUEL B. GREEN.

INQUIRIES ANSWERED BY SAMUEL B. GREEN.

Russian Almond-Best Peach.-J. H., Tapp, Ind. (1) The Russian Almond is as yet but little known, but is undoubtedly hardy in central Indiana. (2) Probably the Crawford Early is as sure a peach as any grown in your state, though undoubtedly many growers would choose some other variety for first place.

Best Strawberry and Fertilize Pistillate Varieties.—G. F. G., Nevada, Mo., wishes to know what is the best fertilizer for the different pistiliate strawberries. What is the best fertilizer for the Bubach?

REPLY:-Probably Tucker State or Capt. Jack are the best kinds to use to fertilize the Bubach in your locality.

Root Grafts.—J. K., Freeport, Neb., writes: "Wili slips from apple trees, stuck in the ground, make as good fruit as grafted trees? Are they of any value at all?"

REPLY:-For a severe climate, rooted cuttiugs of apples would be very desirable, but they are difficuit to root and the next best plan has been found to graft on a piece root with long scion, which latter soon sends out roots of its own. They will make good trees in any climate, if they can be grown.

Moving Trees.—C. G. S., Granville, Ili., writes: "Two years ago iast fall we set out some crab trees on clay soil. Ail lived but one, and are doing well. We want to move them to our place in town where the soil is black and rich. Would it be advisable to move them? When would be the best time to transpiant them?"

REPLY :- They ought to move without any loss whatever, if the work is carefully done early in the spring, after the land is settled and can be easily worked.

Pruning Peach and Pear Trees.-W. H. Portland, Ind. Peaches should have the new growth trimmed back from one half to one third, according to the growth made. Such pruning removes a part of the surplus fruit buds and keeps the trees in a compact form. Pears should be trimmed only enough to keep them in good form. It will often be required that some of the shoots that run up in the center of the trees shail be cut off. In doing so, care should be taken to note how the buds point, and to trim accordingly.

Root Grafting-Grafting Wax.-S. B. H., Blanchard, Iowa. In root grafting appies, the best kind of union is what is called the whlp graft. Almost any other form of union, if the inner bark of stock and scion come together, will answer the purpose, for the apple unites readily. Simply beveiing, without making a split in stock and scion, Is not so good as when a split is made; but if so made, and carefully wrapped, they will unite all right. --- A good grafting wax is made by warming together three parts rosin, three parts beeswax and two parts tailow. If too hard, add more tallow: if too soft, add rosin.

Gooseberry Fruit Worm .- S. L., Phenix. R. I. The Insect you refer to is probably the gooseberry frult worm-Pempelia grossularia. About the time the currants are well formed they begin to turn red or whitish prematurely, aud later on the whole buuch will appear as if tied together by a web, but each currant will be hollow and shrlveled up. The worm works in the berry and goes from one berry to another, lining each berry with slik. Remedy:-Care should be taken to gather and destroy the worms while yet in the fruit. If chickens are allowed to run among the bushes after the frult is gone, they will destroy many of the chrysalids.

Walnut Grove.—R. M. H., Hamlin, Ky., writes: "Piease tell me how a young walnut grove sbouid be treated. The trees are three to four and six years old, but do not seem to grow. How soou ought they to be marketable?"

REPLY:-A young walnut grove grown for hoop-poles, for which I take it you mean to grow yours, ought to be ready to market ln from five to seven years after cutting. It frequently happens that a grove will not get started for several years after planting. If the trees are not pretty close, they branch too

pay to trim any that spread too much. Then, if the trees are on poor land, the growth cannot help being slow, and there is no remedy but manuring, and that would not pay. Be sure and keep cattle out of the grove.

Grafting Apples.—J. D. F., Ozone, Ark., writes: "I have several hundred apple trees, from three to five years oid, of varieties that do not suit me, that I wish to top-graft if they will make good trees. Will most auy common sort be good to top-graft? For instance, Early Harvest, Rambo, Red June, Transcendent Crab or Benon!? If so, I could save time by top-grafting instead of raising trees or digging up and resetting."

REPLY:-Most of the common sorts graft readily and form good unious, with the exception of the crab and our ordinary class of apples. The crabs do best when grafted on crab. The Early Harvest, Benoni and Red June will all graft together readily.

Arbor Vitæ Hedge.—D. C. C., Marion, Kans., writes: "I have a row of arbor vitæ pianted four feet apart, and they are twelve feet high and about fourteen years oid. Can I trim them down so as to make a hedge about three and one half feet high, without killing them? If so, please tell me the time to trim them down."

REPLY :- It will not klll your arbor vitæ to cut them down to three and one half feet if they are well furnished below, but they wili never make a pretty hedge, as they wili spread out too much. Should you cut them down about one half they would do better than if cut lower. The best time to prune them is early in spring, before growth starts.

Apples, Strawberry, Plums and Pears.

—H. R. B., White Bird, writes: "1. What is the largest apple in cuitivation? 2. Which is the best strawberry to bear with common culture? 3. Is Simon plum a sure cropper? 4. Is Ogou pium a sure cropper, and what do you think of these two plums for extensive planting? 5. Which is the best standard pear to grow strong, bear young and produce large fruit? 6. Please tell me why the bark of my young pear trees and grafts turus black in spots, rots and dies."

REPLY:-As you have not given the state in which you live, I cannot answer very definitely. 1. Perhaps the twenty-ounce apple. But an apple of immense size is not as desirable as a medium-sized apple. 2. Probably the Crescent, fertilized with Sucker State or some other good, perfect-flowering kind. Such would probably be the surest at the North. 3. It does well in some localities. 4. The Ogon is one of the Japanese plums, and is not hardy north of southern New Jersey. I think there croppers than the two plums you mention. 5. Probably the Keiffer would fulfill such requirements at the North, and the Le Conte at the South. 6. This is due to blight, which is more liable to attack some varieties than others, and is more prevalent in some seasons than in others. We as yet know of no certain remedy for it. are other varieties that are much surer

Home Nurseries.—R. P. C., —, Ohio, writes: "There are some nursery agents here selling full root trees at twenty cents per tree. We can buy from home nurseries forten cents per tree, graft piece root trees. Which is the better to set out an orchard?"

REPLY:-It is much better for you to buy trees from your home nursery, if the proprletors are honorable and they have good trees, than to send away for them. Iu selecting appie trees it does not matter so much whether they are grown from whole roots or piece roots as whether they are heaithy or vigorous. For extreme northern states the piece roots are preferred, since the scion soon sends out roots of its own, and such roots are hardier than the roots of most seedlings. These points have been shown conclusively by many experiments.

INSECTS ON FRUIT TREES

Can be destroyed by spraying with London Purple. Diseases of grape vines can be checked by spraying with Bordeaux mixture. The Field Force Pump Co., of Lockport, N. Y., manufacture the Knapsack Sprayer and a full line of Orchard and Viueyard Outfits. Write them for circulars and directious.

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THE universal favor accorded THLINGHAST'S PUGET SOUND Cabbage SEEDS leads me to offer a P. S. GROWN Onion, the finest Yellow Globe in existence, To introduce it and the state of the property show its capabilities I will pay \$100 for the best yield obtain-ed from I ounce of seed which I will mail for 80 cts. Catalogue free. lsaac F. Tillinghast, La Piume, Pa

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THE NOVELTIES OF THE SEASON JOHNSON'S DIXIE WATERMELON.



A New Southern Variety, surpassing the Kolb Gem as a shipper and without a peer in quality and productiveness. It is a cross between the celebrated Kolb Gem and that old delicions variety the Mountain Siecet, Possessing the good qualities of both parents, it is the most perfect Watermelon in the world to-day. Price, pkt. 15c.; 2 pkts 25c.; oz. 40c.; 1-4 lb. S1.25; Pound, S4.50; 10 lbs. \$40.00. NETTED BEAUTY MUSKMELON.

The earliest Muskmelon grown. Uniformly rich, lusciously sweet, and very productive. It is closely netted as shown in cut. Flesh very thick and of a pale green color. Netted Beanty when known will rapidly popularize itself as the best of all early Cantaloupes for either home use or market. Price, pkt. 15c.; oz. 35c.; 1-4 lb. \$1.00; Pound, \$3.50. CUMBERLAND RED TOMATO.

This magnificent new Tomato originated in Oumherland Oo., New Jersey, where they have been grown with great profit by a few truckers. Vigorous growers, skin remarkably tough, and keeping a long time after being pulled, making them a most desirable variety for market and shipping. Very smooth, handsome shape, and a heantiful rich red color. Price, pkt. 20c.; 3 pkts. 50c.; 7 pkts. 81.00.

THESE THREE STERLING NOVELTIES for 1891 are without rivals. Large planters can order them liberally with the assurance of success. In order to introduce them we will mail 1 pkt each (which amount at retail prices to 50 cents), together with a copy of our handsome and complete GARDEN and FARM MANUAL on receipt of only 30 cents in stamps or silver. Order now, JOHNSON & STOKES, SEEDSMEN, 217 and 219 Market Street, Philadelphia, Pa.



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prapped) we send it 4 weeks on trial, and also a coupon (good for thirty days) entitling sub-ribers to the lovely ART PORTFOLIO, a collection of exquisite engravings, in a dainty case. HOUSEKEEPER'S WEEKLY, SIXTH AND ARCH, PHILADELPHIA.

Gur Farm.

THE POULTRY YARD.

Conducted by P. H. Jacobs, Hammonton, New Jersey

WHEN IS A HEN TOO FAT?

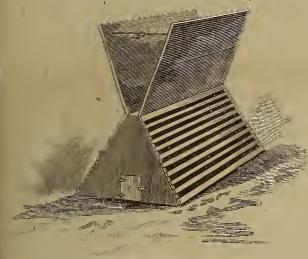
HEN is too fat when she is apparently very heavy behind, when she is lazy and cares nothing for work, seeking only to have the owner feed her. She cannot easily fly, soon becomes tired from exertion when chased, does not

lay, though in good health, and is very heavy when held in the hands. We do not state that any one of the above causes indicates a fat hen, but to observe her in all of them. Of course, the surest method is to lift her and the weight will be there. Examination of the rear of the body will also show the fat under the skin by its color.

As to what should be the character and quantity of the food required to keep them in a healthy condition, cannot be correctly stated, as no two hens are alike. Leghorns and Brahmas (or other large breeds) should not be kept together. If hens are in good condition, the best food is chopped clover hay (chopped half an inch in length and scalded), all they will cat in the morning, a tablespoonful of ground meat mixed with mashed potatoes; and scatter wheat for them to pick up before going to roost.

AN IMPROVED COOP.

A cheap and haudy coop for a hen and her brood is sent us by Mr. J. L. Helpman, of Pennsylvania. It is made of any suitable material, plastering lath being preferred. As seen in the illustration, the roof is composed of two doors, hung by hinges, and fastened together, when raised up, by a hook at the top. The doors may | fed with the nitrogenous ration produced



AN IMPROVED COOP.

be raised up in fair weather and let down | flesh, by cooking, the almost unanimous at night or when the weather is damp. It has no floor, and is easily removed from one location to another. The cost of such a coop is very small, a few laths and a soap-box being easily converted into such a contrivance. It may be of any size preferred.

HANDLING SICK FOWLS.

No one wishes the disagrceable duty of handling sick fowls. A sick fowl seldom cares to eat, but it will drink. Then why ot give the medicine in the drinking water. Here are a few remedies. For the cholera give a teaspoonful of liquid carbolic acid in each quart of drinking water. For indigestion use five drops of the tincture of nux vomica. For roup use a tablespoonful of chlorate of potash. For general debility use the nux vomica one day and twenty drops of tincture of iron the next. For little chicks that are weak in the legs use a tablespoonful of phosphate of soda. Give all these remedies in one quart of water. They may not be "sure cures," but the method is the easiest, cheapest and best.

LUCAS COUNTY,

FRANK J. CHENEY makes oath that he is the senior partuer of the firm of F. J. CHENEY & Co., doing business in the City of Toledo, County and State aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of CATARRH that cannot be cured by the use of HALL'S CATARRH CURE. FRANK J. CHENEY.

Sworn to before me and subscribed in my presence, this 6th day of December, A. D., 1886.

A. W. GLEASON, Hall's Catarrh Cure is taken internally, and acts directly on the blood and nucous surfaces of the system. Send for testimonials, free.

F. J. CHENEY & CO., Toledo, O.

Sold by Druggists, 75 cents. MAKING HENS LAY.

With those who are engaged in the poultry industry for egg production, which is largely the case with those farmers who oncourage the industry, the question frequently arises: "How shall we make our hens lay?" We do not enter upon the subject in the hope of giving any satisfactory answer, or that could be relicd upon as absolutely sure, for the reason that we believe that, like many other directions of farm industry, there are conditions affecting results, and what would be good and work satisfactorily under one set of conditions would, under another set, prove an entire failure.

We have just been looking over an article in the December bulletin of the Cornell Agricultural Station, on the effect of nitrogenous or carbonaceous rations on fowls, that seems to have some bearing upon the question of egg production. Two separate lots of hens were fed; one with one third part wheat bran, one third part wheat shorts, one third part linseed meal and two parts skimmed milk, for a nitrogenous ration; the other with cracked maize and maize dough, as a carbonaceous ration, both being fed a small amount of green clover, as long as it lasted, and afterward with cabbage. During the experiment one half the linseed meal was substituted by cotton-seed meal, and evidently with advantage. At the end of the experiment, which was continued for 125 days, little difference could be seeu in the two groups. It is proper to state here, that in an experiment of the same character with chickens, those fed on the nitrogenous food were large, plump, healthy, active and well feathered, while those fed on the carbonaceous were much smaller, sickly, and in some cases almost destitute of feathers. This fact is worthy of remembrance by chicken raisers.

When it came to the consideration of the subject of egg production, the hens

> 79 eggs as against 26 produced by those fed upon the carbonaceous food. But counting the weight of eggs, those fed on the nitrogenous food gained 6.03 pounds, while those fed the carbonaceous ration gained only 1.36 pounds. There were, however, difficulties attending the increased egg production; the eggs were smaller, had a disagreeable flavor and smell, watery albumens and small, dark-colored yelk, while those of the hens fed on carbonaceous food were large, of fine flavor, natural smell, with rich, large yelks; yet, in testing the quality of tho

verdict was that the hens fed nitrogenous rations gave a darker-colored flesh that was more succulent, tender and better

Although only a single experiment, the conclusions drawn were that chickens fed on an exclusively corn diet will not make a satisfactory development, especially of feathers. The bones of such fed chickens are fifty per cent stronger than those fed on carbonaceous food. Hens fed the nitrogenous food will lay more eggs, but of smaller size and poorer quality than with carbonaceous. Hens fed on corn, while not suffering in general health, become sluggish, deposit large masses of fat on the internal organs, and lay a few eggs of large size and excellent quality. The flesh of nitrogenous-fed fowls contains more albuminoids and less fat than those fed on a carbonaceous ration, and is darker colored and more tender. These considerations may well be borne in mind by those engaged in feeding hens.

Columbia, Conn. W. H. Y.

DRINKING VESSELS.

A sick fowl will communicate disease to the whole flock through the drinking water. For this reason, if for no other, the vessel should be kept very clean. A small piece of lime in the drinking water will be a partial safe-guard; but cleanliness is more important than remedies. The drinking water is soon filthy and will quickly spread disease to an entire flock.

SONOMA, CAL., Feb. 1, 1891.
I received the Peerless Atlas, and am delighted with it. Respectfully.
MRS. M. E. SHERMAN.

CORRESPONDENCE.

WHAT TWELVE HENS DID.-I got 1,926 eggs last year from 12 bens, the eggs being worth here \$36. The cost was \$13. The best months were March, during which I got 248 eggs, and April, during which I got 252 eggs. December gave the fewest-55 eggs.

Philadelphia, Pa.

An Egg Record.-Nearly every issue of FARM AND FIRESIDE gives somebody's account of egg production aud money receipts from poultry. I send brief extracts from my book. It shows more eggs than any record that I have seen: On January 1, 1890, I had 32 hens, old and young, common fowls. During the year 1890 I got 425 dozen eggs, 298 dozen being sold, for which I got \$46.24, besides 127 dozen that were used in my family and for hatching. If the whole 425 dozen had been sold at the average price, the total for eggs would be \$64.10. Lockport, N. Y.

CROSSES.-I knock for admittance in your poultry-yard, to talk with my brothers and sisters, poultry raisers, and hoping I can be benefited and probably help someone else. To J. R. G., Brownsville, Tenn., I would say that his questions have all been answered right but one, and that one is not according to experienced breeders, and the theory is not good. You cannot get any good results from crossing mixed breeds, like the Wyandotte. Now, I say for J. R. G. to try S. C. White Leghorns and Light Brahmas. By breeders this has been found to be the best all-purpose fowl there is.

Sarcoxie, Mo. [The Wyandotte is a pure breed. The cross suggested, of Leghorn and Brahma, is, however, a good one.-ED.]

INQUIRIES ANSWERED.

Draughts.—Mrs. M. H., Apolio, Pa. "What is the cause of the eyes of my fowls swelling?" REPLY:-Draughts on them at night. See reply to C. S. P.

Brooders.—J. T., Potter Hill, R. I. "Plcase send me a plan for brooder."

REPLY:-We are publishing them monthly, and have already given two recently.

Indigestion.—"My hens' crops seem full of water, are heavy and large."

REPLY:-Give the hens some sharp grit, such as pounded chinaware or broken flint.

Paralysis.—E. F. B., Dell Delight, Mo. "We have had several fowls die with what appeared to be paralysis—no use of their legs. Hens tbat.have it are usually fat."

REPLY:-See reply to H. L., this column.

Venetian Red.—Mrs. S. C. A., Newton, Kan. "How does Venetian red act on fowls? I find it valuable to use in the feed two or three times a week."

REPLY:-It is said by some to be beneficial as an appetizer, but we have never experimented with it.

Poultry-Houses.—W. H. C., Berryville, Va. "Will some of your subscribers give a plan for the cheapest and most convenient poultry house for fifty fowls?"

REPLY:-We have given quite a number during the past year, but will be pleased to hear from our readers who have plans.

Mixed Questions.—J. R. G., Brownsville, Tenn. "1. How often should a hen be fed when sitting? 2. I made a wooden trough for my ducks; what is a good preparation to make it tight?"

REPLY:-1. Once a day, in the morning, is sufficient. 2. Nail it together well, and pour wood tar on the seams.

Heavy Males.—H. L., Linden, N. Y. "What is the cause of a seemingly contagious disorder in which the hens walk perpendicularly, like a penquin? As soon as this ailment appears they cease to lay."

REPLY:-Such difficulties are usually due to heavy males being with fat heus. Remove the males.

Overfeeding.—M. P. G., Windsor, Mo. "We kept 100 hens last year, and hatched 500 hens, only one cockerel with the 100 hens, and our chicks were the admiration of all who saw them. Hens are fed with more care this year, but they do not lay.

REPLY:-Your extra care has probably resulted in overfeeding and making them too fat.

Droopy Hens.—Mrs. M. M. L. "My bens, in apparent good condition, droop, do not eat, and stand all drawn up. They continue this way several weeks and die."

REPLY:-It may be due to the large, gray lice on the skin of the heads and necks, or to roup. Remove the male from the flock, keep the hens warm, and follow directions as given in reply to C. S. P., this column.

Hamburgs.—A. L. B., Nooksack City, Wash. "1. How large are the Silver Spangled Hamburg chickens when full grown? 2. Are they a hardy breed to raise on a farm with a free range? 3. How early in the spring should Pekin ducks be hatched?"

REPLY:-1. Males should weigh about six pounds. 2. If the climate is not too severe they are hardy. 3. Ducks usually begin laying in February, and ducklings hatched in March.

Swollen Heads and Eyes. - C. S. P., Utica, Ohio. "What is the matter with my hens? They are apparently healthy, but their heads and eyes swell up, and they have a hoarseness like a bad cold."

REPLY:-Due to exposure to draughts on them at night, probably through a crack, or from a top ventilator. Anoint head and eyes with a few drops of a mixture of one part spirits of turpentine and three of sweet oil, and add a tablespoonful of chiorate of potash to each quart of drinking water.

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FROM KANSAS.-Rice county is a beautiful country. A great deal of wheat was sown and looks well. Corn was a poor crop last season, and it is now worth 50 cents per bushel. The Farmers' Alliance is strong here and we hope it will be stronger in another year.

FROM TENNESSEE .- We had but little snow here this winter. Land is worth from \$15 to \$40 per acre. We produce wheat, rye, wool, apples, pears, plums, cherries and small fruits of many kinds. Dairying is an important interest, as we have excellent grass. The timber is oak, gnm, cypress, poplar, etc. The churches are Presbyterian, Methodist, Episcopal, Norwegian, Lutheran and Baptist. Schools are very good. Farmers' Alliances are being organized in some parts of the county. A living for everybody who will work in good faith.

Ariadne, Tenn.

FROM WISCONSIN.-We are having a big boom in new settlers from the East, and those who have come are well pleased. The best farm lands are so cheap that anyone can afford to bny forty acres. Unimproved land can be bought at from \$3 to \$5 per acre. The soil is a good, sandy loam, level, and with few or no stones. It will raise all kinds of grain and hay. These same lands will soon be worth from \$50 to \$75 per acre. Good, improved lands can be bought at from \$5 to \$10 per acre. There is a good home market for all the farmers raise, as our lumbermen and miners consume it all and pay better prices than Milwaukee or Chicago do. Our climate can't be beat for good, bracing, pure air. G. W. H.

FROM ILLINOIS .- Williamson county is in the southern part of the state. It has a fertile We have good crops uearly every year. All the cereals do well. Parts of this and joining counties are hilly, but well adapted to raising grasses and all kinds of fruit. Coal is abundant in different parts of the county. Raising hogs, horses and poultry pays well. There are tolerably good markets for all kinds of farm produce. Land is worth from \$10 an acre upward, according to location and improvement. The climate is healthful. We have good schools and churches of different denominations, mostly Methodist and Baptist. Some people will leave here and go farther

west, but they generally come back within a

Corinth, IlL

Stevens' Point, Wis.

FROM MICHIGAN.-Otsego is one of the best counties in northern Michigan. The land is good and heavily timbered with hard maple, elm, basswood, birch, beach and hemlock. Both fall and spring wheat do well here, as do rye, oats and buckwheat. I have lived here over eight years, raised corn every year, and never had less than eighty-two bushels per acre, except one year. We can compete with any section of the country raising potatoes. This is a good place for men with small means to get a good home. Work is plenty, wages good and land cheap. We have to sink our wells about thirty to thirty-five feet and get the best of water. Running streams are R. D. S. plenty.

Vanderbilt, Mich.

FROM KANSAS.-Doniphan; county is situated in the north-east corner of the state. It is bounded on three sides, almost, by the Missouri river. Nearly every half section has constant running water, and being so near the great Missonri river it is very rolliug, and along the river it is bluffy. The natural fertility of the soil is unsurpassed and the seasons are regular. I left the Pretty Prairie, Champaign county, Ohio, April, 1858, and have lived here ever since, and know what I am saying when I make the assertion that for climate. regular seasons, good soils, healthfulness and everything that makes a country desirable. Doniphan county is second to none. I have lived here thirty-three years and have not had a failure, but have always had enough and some to spare. With proper care the soil is inexhaustible. Good markets. Everything grown in a similar latitude does well here.

Doniphan county, Kan. J. S. M.

FROM MISSISSIPPI .- Alcorn county is in the extreme northern portion of the state. Alcorn is divided by two railroads. Memphis is ninety miles away and a ready market, both for buying and selling. The farmers are paying attention to horticulture and it pays better than raising cotton. Fine stock of all kinds are raised porfitably. Jersey cows give better satis faction for butter, Short-horns and common grade for beef. Our farmers are proud of their colt shows they have every year. Norman, Cleveland Bay and Mercer stock are taking tire lead, commanding from \$100 to \$250. Sheet) raising pays well. The highest market price is paid for wool at the Alcorn woolen-mills. Our lands are good and range in price from \$1 to \$30 per acre. We have fine bottom lan ds and they are heavily timbered with hickor'y, walnut, ash, poplar and the different kinds of oak. Our hill lands are timbered with fine pine. Our lands produce from one half to come bale of cotton per acre, and from fifteen to forty bushels of corn. Irisb potatoes and sweet potatoes are two of the main crops. The hay crop pays

The hay crop pays

The hay crop pays

Chas. R. Woolley, Osborne, Kansas. duce from one half to cine bale of cotton per

prices. French and Germans have vineyards and a large quantity of wine is made and shipped. Our climate is mild and very healthy. Public schools all over the county. Corinth, Miss.

FROM MISSOURI.-Harrison is as good a county as there is in the state. Land is rolling, and in places, broken; the soil is mostly black loam, well watered; and there is some fine timber. We can raise almost everything, have no failure of crops and have a good market for everything we raise. We have good schools and plenty of churches, a good class of people, but they do not have the go-ahead of the eastern people, do not improve their homes as well. I would like to see some of brother Ohio farmers come out bere and buy some of this cheap, good land. Good, improved land can be had for \$10 to \$20 per acre. Sheep raising is a success. We can grow wool here as cheap as anywhere, as this is a clover and blue grass country. Our winters are mild. Land is cheaper than anywhere that I know of for the quality. Bethany, Mo.

FROM WASHINGTON.-Washington is a wonderful state as to its natural wealth, timber. iron, coal, agricultural land, fine harbors, etc. Lewis county is one of the richest counties for agricultural purposes, with its rich valleys and rolling hills nearly all covered with tall timber. The timber is principally cedar and fir, the average size of which is from thirty to seventy inches in diameter, and from one hundred and fifty to three hundred feet long. Railroads are building from all directions into this most valuable timber, affording employment to all. When the timber is finally used np, the country will be all the richer, for it is the very best of fruit and grain land. Prunes, plums, pears, apples, peaches and all kinds of small fruit do well. The largest and most extensive coal fields in the North-west are in Lewis, Pierce and King counties. Land can be bought here for from \$10 to \$30 per acre. There are thousands of acres of vacant government and railroad lands which will be worth fortunes in the near future. Ferry has one store, one hotel, one blacksmith shop, one cooper shop, one feed stable and one saw-mill-all yearlings.

Ferry, Washington.

FROM IDAHO.—The western portion of Washton county, along Snake, Fayette and Weiser rivers has level valleys of ricb, black, sandy loam, covered with sage brush and bunch grass. The valleys range from one mile to ten in width, with rolling bills covered with grass back from the valleys and forming into mountains in the background, where ledges of precious mlneral and heavy pineries are located. Numerous springs of pure, cold water break out over the valleys, hills and mountains, forming excellent ranges for sheep, borses, cattle and hogs. Stock is generally fed from two to six weeks in the year. Water is plenty for irrigating purposes, but crops require very little irrigating to insure large yeilds, compared with other irrigating countries. Most places wells are dug, and good, soft water is found from ten to thirty-five feet deep. Land that can be easily covered with water is about all taken up and held in large tracts at from \$10 to \$20 per acre. All kinds of grains, grass, vegetables and fruit, such as apples, pears, peaches, prunes, grapes and small fruit, yield large crops. The market is good for everything raised. Weiser, Idaho.

FROM MASSACHUSETTS.-Berkshire county in Massachusetts extends entirely across the west end of the state, from north to south a distance of about fifty miles, and embraces an area of 950 square miles. There are thirty-one towns and one city, Pittsfield, in the county. This is one of the most thrifty farming connties in the state, well watered, with plenty of wood and excellent quarries of lime and marble. The national capitol at Washington is largely built of marble from this county. The farmers are mostly to the manor born and are generally well read and intelligent. There are several thrifty manufacturing centers, which afford a ready market for almost everything farmers can produce. Hay sells at \$10 to \$15 a ton; potatoes and apples, \$1 to \$1.25 per bushel; oats, 60 cents; corn, 80 cents, and butch from 25 cents to 35 cents a pound. The Boston and Albany railroad crosses the county at Pittsfield, and the Hoosac Tunnel and Fitchburg road crosses in the northern part, while the Housatonic road runs lengthwise the county. The educational facilities are excellent, with Williams college, one of the oldest in the country, in the north part of the county. These Berkshire Hill towns are rapidly becoming popular resorts for summer visitors from all parts of the country. The town of Lanesborough, beautiful for situation, five miles north of Pittsfield, is nearly the watershed of the country, with an altitude of from 1,500 to 2,000 feet above the sea-level. Greylock mountain, near by, is the highest land in the state, 3,500 feet. The population of the county is \$1,078.

Lanesborough, Mass. at Washington is largely built of marble

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Queries.

READ THIS NOTICE.

Questions from regular subscribers of FARM AND FIRESIDE, and relating to matters of general interest, will be answered in these columns free of charge. Querists desiring immediate replies, or asking information upon matters of personal interest only, should enclose stamps for return postage. The full name and post-office address of the inquirer should accompany each query, in order that we may answer hy mail if necessary. Queries must be received at least two weeks hefore the date of the issue in which the answer is expected. Queries should not he written on paper containing matters of business, and should be written on one side of the paper only.

Subsoil Plow.—A. H., Mendon, Mich. You can get a good subsoil, plow of Deere & Co., Moline, Ill.

Book on Carp Culture Wanted.-R. D. P., Jefferson, N. Y. Send sixty-five cents to L. B. Logan, Youngstowu, Ohlo, for "Practical Carp Culture."

Butter Extractor.—T. W., Minersville, Kan. The butter extractor is now manufactured by the Vermont Farm Machine Co., Bellows Falls, Vt.

To Remove Wool from Sheep Skins.—
P. J. F., Middletowu, Idaho. To remove wool from sheep skins, spread on the flesh side a paste made of equal parts of slacked lime and hard wood ashes, made with soft water. After spreading on the paste, roll up the hide, flesh side in, and put it to soak in a vat of water. Leave it until the wool pulls off easily.

Waterproof Sash-Cloth.—G. C., Lorraine, Tenn., in answer to an inquiry about waterproof sash-cloth, writes: "Iuto one and one quarter gallons of boiled linsced oil, stir one quarter of a pound of rosin and oue ounce of sugar of lead. Apply while hot witb a paintbrush. I prefer this waterproof cloth to glass for the inexperienced. The plants do not grow so spindling. The sashes are easily handled and do not break."

Secretaries of Agricultural Organizations.—In answer to a number of inquirers, we give the addresses of secretaries of agricultural organizations to whom they cau apply for information: National Grange, John Trimble, 514 F street, Wasbington, D. C.; National Farmers' Alliance, August Post, Moulton, Iowa; National Farmers' Alliance and Industrial Union, J. H. Turner, Washington, D. C.; National Farmers' League, Herbert Myrick, Springfield, Mass.

Whitewash.—C. E. S., Marine, Ill. Take

rick, Sprlngfield, Mass.

Whitewash.—C. E. S., Marine, Ill. Take nice, fresh-burned, unslacked lime, one half bushel; slack it with boiling rain-water, keeping it covered during the process to keep in the steam. Add to this one peck of salt, dissolved in water. Then add five gallons more of hot water, and stir the mixture well. Cover it up and let it stand a few days. Applyithot. Some thin it with skimmed milk. The secret of making it stick well is to have good lime, well mixed with the salt and applied hot.

Bone Ashes.—D. B. B. Wisconsin writes.

Bone Ashes.—D. B. B., Wisconsin, writes:
"Will it pay me to burn bone in the large furnace heating my resideuce? Can burn five or six bnshels of bone by wood fire, at one time. Is there any value in the ashes from burning old leather?"

REPLY BY JOSEPH:—The ashes from the bone and wood will make a most excellent fertilizer for all crops, worth probably \$15 a ton. The addition of leather to the fuel will not add anything to the value of the ashes produced.

BROS.—S. I. P. Canton Objo writes: "When

Bees.—S. L. P., Canton, Obio, writes: "When bees swarm, is it the old queen that leaves the hive? If I kill the queen, wlll the bees return to the hlve?"

REPLY:—Yes, iu first swarms the old queen goes out with the swarm. In afterswarms the queens are young. If a swarm loses its queen in any way, it will return to the hive. If you are interested in bees, get a good book on the subject. The A B C of Bee Culture, advertised by A. I. Root in last issue, is a good one.

Lime for Muck.—Dr. A. C. W., Illinois, asks: "How much dry, slacked lime sbonld I use per square rod of garden? Have put on muck three inches deep, and it is dry and fine." REPLY BY JOSEPH:—I would have preferred to compost the muck with lime, ashes, etc., before applying. But you may put on as much dry, slacked lime as you please; it will do no hurt. Try a peck or more per square rod, and work muck, lime and upper layer of soil well together. This will probably give it the right texture.

Preserving Meat for Summer Usc.—H.
L. S., Richmond, Ind. Farmers usually do their butchering before midwinter. The meat is put down in brine for six weeks. It is then taken out, drained, and the flesh side is thoroughly rubbed with finely-pulverized black pepper. It is then hung up and smoked. The smoking should have been done by this time. If you have a good smoke-house, dark and cool in summer, you can leave the meat hanging there without danger from insects. After they are smoked, many put the hams and shoulders, after wrapping them in paper, in paper flour-sacks and hang them in a cool, dry, dark place.

Rats.—F. D. A., Ammendale, Md., writes:

Rats.—F. D. A., Ammendale, Md., writes:
"For some time we have been troubled with large numbers of rats. Last summer they killed many of my young chickens. We have tried poisoning them, but in a short time they tried poisoning them, but in a short time they are as bad as ever. How can we get rid of them?"

them?"
REPLY:—By traps, poisons, dogs and cats. Evidently you are in a neighborhood badly infested with rats, and when you kill off all on your own premises, outsiders soon come in and take possession. You must keep up a constant warfare against them. The best way to do that is to keep good cats. Use traps aud poisons until you have killed as many as possible, then keep several cats. You will have to keep several in order to be sure of having one good ratter. But a few good ones will keep your premises clear of rats and mice.

your premlses clear of rats and mice.

Sweet Corn for Canning.—W. A. B.,
Souris, Prince Edward Island, writes: "How
is sweet corn sold to the cauning establishments; by the bushel shelled, or by the dozen
ears, or by weight, and what is the average
price?"

REPLY BY JOSEPH:—Perhaps one or the other
of the members of the FARM AND FIRESIDE
family cangive information concerning prices
now being paid. I have never lived uear a
sweet corn canning establishment. Of course,
the green corn is usually sold by the ear or
bushel. Years ago I grew some for an evaporating concern, and received one cent per ear.
At that rate it is a paying business for the producer.

Ashes—Falling Stars—Coal or Wood—
To Destroy Worms in Water.—J. R. G.,
Brownsville, Tenn., asks: "(1) Whatis the best
use for hickory ashes? (2) When did the socalled phenomenon of falling stars occur?
(3) Which is cheaper for family use in the
kitchen, coal or wood? (4) How can I destroy
the small, white worms in my well?"
REPLY:—(1) That depends upon circumstances. You can make potash of them, if you
have any use for it, or you can use them for

fertilizer if you have any need of that. (2) Hardly a clear night passes on which falling stars or meteors cannot be seen. But at certain times in the year they are much more numerous than others. Every year in the second week of August the earth passes through a stream of meteors which encircle the sun in an elliptical orbit. Some years they are more frequent than others. On November 13, 1833, occurred the most wonderful meteor shower ever recorded. We presume your question refers to this. (3) That depends on the cost of each. Where the wood is plenty and cheap, it is used in preference to the coal. Where the latter is cheaper it is used with entire satisfaction. (4) Put fresh lime iu your well and theu pump all the water out.

VETERINARY.

**Conducted by Dr. H. J. Detmers.

**Veterinarian of the Ohio Agricultural Experiment
Station, and Professor of Veterinary Surgery
in Ohio State University.

To regular subscribers of FARM ANN FIRESIDE, answers will be given through these columns free of charge. Where au immediate reply by mail is desired, the applicant should enclose a fee of one dollar, otherwise no attention will be paid to such a request. Inquiries should always contain the writer's full address, Queries must be received at least two weeks before the date of the issue in which the answeris expected. Subscribers may send their veterinary queries directly to DE. H. J. Detmers, 35 King Avenue, Columbus, Ohio.

Ringbone.—F. C. W., Inwood, Iowa. Consult answer to similar question in FARM AND FIRESIDE of December 15, 1890.

Periodical Ophthalmia.—W. L. R., Chapman, Kan. Your horse is affected with periodical ophthalmia (so-called moon-blindness), a disease which almost invariably leads to blindness, especially if the eyehall is already smaller or "shrunk," as you say. Hence, a treatment will be of no avail.

Probably Distemper.—C. W., Gig Harbor, Wash. Your dog, probably, is suffering from dog distemper. When this reaches you, the animal either has recovered, or has become incurable and worthless. The disease can frequently be cut short, if in the beginning (during the first stage) a good emctic of powdered, white bellebore is giveu. Iu your case it is too

Larvæ of Ocstrus Boris.—R. A. B., West Rushville, Ohio. So-called warbles are produced by the larvæ of the gad-fly, Ocstrus boris. The best way, this season of the year, is to slightly enlarge the opening in each boil, then to press out the larva and to kill it at once by stepping with the foot on it, when it falls to the ground, so that it may not produce a gad-fly. a gad-fly.

Hollow-horn.—C. A. T., Fowler, Ohio. There is no disease which might be called "bollow-horn." It is a term sometimes used to cover ignorance, nothing more. In malignant catarrh of cattle the borns sometimes lossen and slough off; but that canuot be called "bollow-horn." The horns of all neat cattle are hollow. In the above you will also find an answer to your second question.

Malignant Œdama.—S. C., Mt. Idaho, Idaho. Your calves died of malignant ædama, or so-called black-leg. A prevention by a protective inoculation is possible; but as it is very doubtful whether you can get anybody who knows how to do it, the best advice I can give you is to keep your calves away from the dangerous places where the disease is contracted. A treatment is hardly ever of any avail.

Possibly Farcy.—O. J. S., Lee Park, Neb., writes: "I have a horse that has running sores on one of her front legs. They have been there for some time and are hard to heal."

Answer:—Such runuing sores that will not heal must always be looked upou with suspicion. The disease, possibly, may be farcy. I therefore have to advise you to inform your state veterinarian, and to request him to make an examination.

Gleet —W. P. Valencia Kan. The simple

an examination.

Gleet.—W. P., Valencia, Kan. The simple fact that your horse has a watery discharge from the nose, does not convey any idea whatever as to the nature of the disease. You speak of "gleet." What people call "nasal gleet" is usually nothing but the first stage of glanders. If you think your mare is afflicted with that disease, notify your state veterinarian. It is his duty to make a thorough examination, and to decide that question.

Splints—H. S. L. Gullitt III. Perseavery.

Splints.—H. S. L., Gullitt, Ill. Pare away a little of the sole and lower border of the wall of the inside of the hoof, so as to give the animal a slightly knock-kneed position, and thus to relieve the head of the inner splintbone. This done you may rub in on the splint, once a day, a little gray mercurial ointment, about as much in size as a pea, at a time; or, if you prefer, you may apply gentle but constant pressure by means of bandaging.

Periodical Ophthalmia—Opeonta N. Y.

Periodical Ophthalmia.—Oneonta, N. Y. Your colt evidently suffers from periodical ophthalmia (so-called moon-blindness), a disease which rarely ever admits recovery, and almost invariably terminates in blindness, especially If both eyes are affected. So-called wolf's-teetb have nothing to do with the eyes. The predisposition to periodical ophthalmia is hereditary. If you desire to attempt a treatment, I refer you to former numbers of this paper.

Boils.—T. O., Portsmouth, Va. I hardly

Boils.—T. O., Portsmouth, Va. I hardly know what to make out of those peculiar boils you describe. Still, it will be safe to apply some antiseptic, perhaps some iodoform, which may be sprinkled on a small bunch of absorbent cotton, and thus be patched on the boil. Renew the iodoform and the cotton twice a day. If no improvement should take place in a week or ten days, you may apply some caustic, perhaps finely-powdered sulphate of copper.

Habitual Abortion.—T. M. E., Atkinson, Neb., writes: "I have a mare that lost her colt the first time she was in foal. The next time she had her colt all right, but twice since has lost her foal. She is in foal again. Can anything be done to prevent her losing it?"

Answer:—There can not All you can do is to

losing it?"
Answer:—There can not. All you can do is to keep the animal under good sanitary conditions, and to avoid violent exercise. As a rule lt does not pay to breed such an animal.

Weakness.—H. W., Secor, Ill. Your cow evidently suffers from weakness, but whether the same is caused by insufficient food as to quantity or to quality, or whether the animal system is debilitated by some morbid process, does not proceed from your communication. At any rate, feed her sound and nutritious food, easy of digestion, and stop milking, because the production of milk is a drain on the organism. If she is heavy with calf, however, you will hardly be able to produce any Improvement until after calving.

Thin in Flesh —P. M. P. Sanducky Objective Object

Thin in Flesh.—R. M. R., Sandusky, Ohio., writes: "My horses keep thin in flesh. They have the best of food, consisting of good corn, timothy hay, bran and oil meal. I keep them in a barn with thirty head of milch cows. Is that the cause?"

Endorsement by men and women of the character and standing of those who recommend ALLCOCK'S POROUS PLASTERS is unquestionable proof of merit.

Mrs. Henry Ward Beecher writes:

Mrs. Henry Ward Beecher writes:

"40 Orange Street,
Brooklyn, N. Y., February 11, 1890.
"I have used Allcock's Porous Plasters for some years for myself and family, and, as far as able, for the many sufferers who come to us for assistance, and have found them a genuine relief for most of the aches and pains which flesh is heir to. I have used Allcock's Porous Plasters for all kinds of lameness and acute pain, and by frequent experiments, find that they can control many cases not noticed in your circulars.
"The above is the only testimonial I bave ever given in favor of any plaster, and if my name has been used to recommend any other it is without my authority or sanction."

The Rev. Mark Guv Pearse writes:

"The Rev. Mark Guy Pearse writes:

"Bedford Place, Russell Square.
London, December 10, 1888.

"I think it only right that I should tell you of how much use I find Allcock's Porous Plasters in my family and amongst those to whom I have recommended them. I find them a very breastplate against colds and coughs."

Busell Sage the well known finance.

Russell Sage, the well-known financier. writes:

"506 FIFTH AVENUE,
NEW YORK CITY, December 20, 1890.
"For the last twenty years I have been using
ALLCOCK'S POROUS PLASTERS. They have repeatedly cured me of rheumatic pains and pains
in my side and back." Whenever I have a cold,
one on my chest and one on my back speedily relieue me lieve me.
"My family are never without them."

Henry A. Mott, Jr., Ph.D., F.C.S. late Government chemist, certifies:

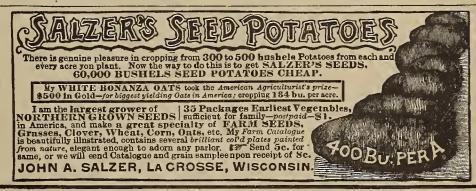
"My investigation of Allcock's Porous Plas-Ters shows it to contain valuable and essential ingredients not found in any other plaster, and I find it superior to and more efficient than any other plaster."

Marion Harland, on page 103 of her popular work, "Common Sense for Maid, Wife, and Mother," says:

"For the aching back Allock's Porous Plaster is an excellent comforter, combining the sensation of the sustained pressure of a strong, warm hand with certain tonic qualities developed in the wearing. It should be kept over the seat of the uneasiness for several days—in obstinate cases, for perhaps a fortnight."

W. J. Arkell, publisher of Judge and Frank Leslies' Illustrated Newspaper, writes:

"JUDGE BUILDING,
COT. FIFTH AVE., and SIXTEENTH STREET,
NEW YORK, January 14, 1891.
"About three weeks since, while suffering from a severe cold which had settled on my chest, I applied an ALLOCK'S POROUS PLASTER, and in a short time obtained relief.
"In my opinion, these plasters should be in every household, for use in case of coughs, colds, sprains, bruises or pains of any kind. I know that in my case the results have been entirely satisfactory and beneficial."



You may try and leave off the bran and oil-cake meal (no good food for horses anyway) and substitute good oats.

Incipieut Bat-Tail.—A. J. F., Point Rock, O., writes: "What is the matter with my mare? Sbe is twelve years old and in good flesh. She has shed most of the long hair out of her tail."

Answer:—Your mare has, or is getting, what is commonly called a "rat-tall." There is no remedy. You may possibly be able to stop the loss of hair by a thorough cleaning of the tail with soap and water, and after that, by applying a wash of a solution of corrosive sublimate, 1:1000.

sublimate, 1:1000.

Weakness.—S. C. H., Brinkley, Tenu., writes: "I have a fine Jack colt eighteen months old. His kuees have recently pitched forward. Will you tell me what causes it and the best thing to do for bim?"

ANSWER:—Your colt, probably, is too weak, does not receive sufficiently nutritious food, or its food is lacking in necessary constituents. Feed good hay, good oats, and some bran. If the legs are very weak, you may be able to give the animal some temporary support by judicious bandaging, but dou't forget that every bandage must be renewed at least twice a day, and that the bandaging invariably must be begun at the hoof.

Actinomycosis.—C. C. B., Hinton, Iowa.

Actinomycosis.—C. C. B., Hinton, Iowa. If the swelling is slightly movable, and not attached to the bone, it may be cured; but if attached to and proceeding from the bone, it is incurable. For treatment I have to refer you to the last issue of this paper, in which a detalled description of the treatment is given, or else you may apply to Chas. E. Thorne, or else you may apply to Chas. E. Thorne, director of the Ohio Agricultural Experiment Station, and ask him to send you a copy of Bulletiu No. 3, of volume III, second series, in which you will find a full account.

In which you will flud a full account.

Discharges from the Nose in Sheep.—
A. C. T., Fraskwood, Ark. What you want a remedy for may be due to various causes; in fact, be a symptom of quite a number of disease of the respiratory organs, including the respiratory passages and the accessory sinuses. I therefore, not knowing the cause and nature of the disease in your case, cannot give you any remedy. Sheep are apt to be snotty if they have vestrus larvæ (grubs) in the nasal cavities, or in the frontal or maxillary sinuses; also when they are afflicted with lungworms.

Spavin.-W. L. B., Lena, Ill., writes: Spavin.—W. L. B., Lena, Ill., writes: "I have a mare about ten years old that is lame in ber left hind leg. Some call it a bog-spavin and others say it is a strain. She has been lame, off and on, for two years. The place affected is in the knee joint; it is swelled just like a puff and the bunches are soft and seem to be filled with water. There is a bunch in front of the knee and on both the outside and inside. I have blistered it twice, but that does not help it any. She walks aud stands on the front part of the foot."

Answer:—The bog-spavin, it seems, hides a bone-spavin, which latter causes the lameness. Blistering can do uo good, unless it is done judiciously, and the animal has sufficient rest to allow the production of anchylosis. For further information please consult the articles on the treatment of spavin and ringboue in previous numbers of this paper.

Wart on Horse.—J. W. S., Roseburg, Oreg.,

wart on Horse.—J. W. S., Roseburg, Oreg., writes: "It is immediately over the right eye and hangs down over the eye, nearly blinding him. It is larger now tban an egg. This is the third or fourth time it has grown. Have been using lunar caustic without effect, and latterly hog's lard, but of no use. Cut it off one time with a knife, still it grew again; got rid of it another time by using a ligature of horse-hair and silk, but after a time he rubbed it off. I would like to know how, not only to get rid of it, but to stop it's growing again.

Answer:—Try once more a ligature made of a waxed end prepared by your shoemaker, and then, after the wart has been removed, paint a few times, by means of a camel's hair pencil, the place over, but carefully, so that nothing gets into the eye, with a concentrated solution of corrosive sublimate in alcohol.

Garget—Remedy for Colic.—H. H. M.

timothy hay, bran and oil meal. I keep them in a barn with thirty head of milch cows. Is that the cause?"

Answer:—There are too many possibilities.

Garget—Remedy for Colic.—H. H. M., Warren, R. I., writes: "What is 'garget,' and is the milk from a cow ever so slightly afficted with the disease fit for use? I have

EVERBEARING STRAWBERRY. BEARS from May nntil frost. Descriptive price list free. Seth Winquist, Russellville, Ore.

ROSES OUR SPECIALTY.

RUDED OUT DIFFORMULT.

20 beautiful, ever-blooming Roses for \$1.05 (will make a nice bed.) The Manettia Vine and Solanum Jasminoides Grandiflora 15 cents each. Childs' Japanese Wine Berry 25 cents. A plant of the New Japanese Chrysanthemum, No. 31, the earliest, largest and most beautiful of all, sent free of charge with each order. Our Illustrated Catalogue of Roses, Chrysanthemums, Dahlias and everything else with which to beautify lawn, flower garden and conservatory, sent free to all upen application. Send for it now, as this will not appear again. A. B. Davis & Son, Purcellville, Va.

Has fewer parts and joints, hence simplest. Is the



Lightest, Strongest, Cheapest, of all Sectional Wheel Wind Mills. Is thoroughly well made of beet materials. Runs without a tail and governs perfectly. We et and behind the Ideal Junior with a strong warranty. Prices and catalogue cheerfully furnished.

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Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several

been told that the lightest attack of garget can always be detected in washing the pans where milk has stood for any length of tlme, the smallest addition of soap to the water making the cloth become slimy at once. Is this a fact? A word about that much-abused remedy for colic ln horses, vinegar and chalk. It has been used to my knowledge, for a horse subject to colic, with the best results, when other remedies failed. It is used also by keepers of livery stables, and has been found an excellent thing, refleving the animal almost immediately. As to your theory that because the chalk creates such a commotion in the vinegar, it must increase the gas in the horse's stomach, I will say that this might be the case if the two ingredients were given separately. But, as in all combination powders, the two are mixed before taking. The result is the removal of the gas, and not an increase of it."

ANSWER:—Garget may be defined as an Infiammatory affection of the mammary glands, caused by a coagulation of the milk. As to what you have been told, don't be too crednious, and don't implicitly believe the stories of—perhaps, a joking neighbor. What you say in regard to your much-abused remedy (?) of colic plainly shows that you have not the faintest idea of the pathology of the various diseases collectively called colic. If yon have good success (?) with your nostrum, I will not quarrel with you, but don't expect me to endorse any such nonsense, nor to recommend

Our Fireside.

NOT AS I WILL.

Blindfolded and alone I stand, With unknown thresholds on each hand ? The darkness deepens as I grope, Afraid to fear, afraid to hope; Yet this one thing I learn to know Each day more surely as I go, The doors are opened, ways are made, Burdens are lifted or are laid By some great law, unseen and still, Unfathomed purpose to fulfill, "Not as I will."

Blindfolded and alone I wait-Loss seems too bitter, gain too late, Too heavy burdens in the load, And too few helpers on the road; And joy is weak, and grief is strong, And years and days so long, so long; Yet this one thing I learned to know Each day more surely as I go. That I am glad the good and ill By changeless law are ordered still,
"Not as I will."

"Not as I will!"-the sound grows sweet Each time my lips the words repeat. "Not as I will!"—the darkness feels More safe than light when this thought steals Like whispered voice to calm and bless All nnrest and all loneliness. 'Not as I will!" because the One Who loved ns first and best has gone Before us on the road, and still-For us must all his love fulfill-"Not as we will."

-Helen Hunt Jackson.

THE NUGGET

GRUB-STAKE GULCH.

BY JAMES OTIS.

CHAPTER IX.

A FORCED DECISION.



HEN finally the envious and curious miners dispersed, Seth was able to begin the day's work; but at least two valuable hours had been wasted.

Ned had long since filled the bucket with earth; was beginning a tunnel In the direction from

which the nugget had been taken, and in reply to Seth's question he shouted:

"Don't worry about my not being strong enough to keep on here for a week, if necessary. You attend to the windlass 'till noon, aud then I'll take my turn at it."

"Have you seen any color?"

"I've got about half an ounce of gold; but haven't found anything for the last hour. I tell you what it is, Seth, there are many doubts in my mind as to whether we shall pan out enough to pay day wages."

"But it doesn't seem impossible the big nugget was alone;" and Seth, now considerably excited, descended the rope without regard to the full bucket he had been requested to draw up. "By putting a shaft through in that direction we should find a vein."

"That is a poor argument, more especially since it is a well known fact that a pocket is no indication to be relied on. It wouldn't be strange if we didn't find another ounce within half a mile of this claim."

Since the golden cross had been discovered at some distance above the bottom of the shaft it was not absolutely necessary that all the dirt should be taken out, and Seth wielded the pick until obliged to work in a stooping posture because of what he had packed beneath his feet; but yet there was no further sign of treasure.

Not until noon did he cease his work, and then, just as he was on the point of snggesting that they go to the cottage for dinner, a piece of brown paper, dropped from the edge of the shaft, fluttered this way and that until it fell

"I'll wager my share of the nugget that I know what it is," he said as he picked up the carcfully-folded fragment, and on opening it the following lines were disclosed:

"This is a notice for Morey to leave town within two days, or run the risk of meeting them who know him from way-back. There ain't goiu' to be no more foolin' done in St. Julian."

Seth handed the paper to Ned, and when the latter had read it he said:

"Conestoga Joe wrote that. He offered me five thousand dollars for the claim, and has adopted this course to make sure we'll accept it."

"Do you think he can muster force enough to drive me away?" Ned asked after a short pause.

"Without a question. Seven-eighths of the men do his bidding because of the hospitality of the Palace, and we may as well look at the matter squarely. I went to see him last night when you thought I was hunting for your horse, and have a pretty fair idea of how far he will go in order to effect his purpose."

"I wish I knew why he is so anxious to get

rid of me."

"So do I, and perhaps we can hit upon the solution presently. At all events we have forty-eight hours before us, and the most important matter just now is to get our dinner."

silence. Aside from the warning to leave they had good reasons for being disheartened They were apparently no nearer a realization of their hopes than before the nugget was found, and Seth was more than disappointed with the indications.

Now that Morey had been ordered to leave town In such a short space of time, the miners, probably acting upon Mr. Grant's suggestion, greeted the partners only with threatening glances and menacing gestures as they passed up the street on the way to Seth's cottage, and this condition of affairs, more than the written notice, gave proof of Conestoga Joe's power.

As a matter of course, Alice was made acquainted with what had happened during the forenoon, and she, understanding reasonably well why Ned was to be driven out of town, felt decidedly alarmed.

"Why not accept Mr. Grant's offer?" she asked anxiously. "You are afraid the pocket which has been found is the only one there, and five thousand dollars will repay you for all the labor expended."

"The idea of being forced to run away is not a pleasing one," Ned replied grimly. "I had rather take the chances than let them think me a coward."

"They have no reason to believe anything of the kind," she said emphatically, and then realizing because of Seth's glance that she was championing Ned's cause in rather more than simply a friendly manner, she added as a deep flush rose to her cheeks, "I mean that such an idea need not be advanced in the argument. I would be very glad if my brother and I could go away, and Mr. Grant's offer gives us the opportunity to do so."

"In that case I ought to say nothing more." Ned replied. "Seth has a greater interest in the double claim than I have, and it should be for you and he to settle the matter."

"My share is no greater than yours."

"Certainly it is. You paid the same price

trade. Grant must necessarily pay in cash, since there are no banks here, and onr departure need not be delayed beyond to-morrow morning."

While this forced decision was being arrived at, the proprietor of the Palace was attending to certain details he believed would insure the sale of the double claim, from the proper working of which he was positive such large profits could be realized.

He began by summoning Big Bill, and instructing him to call in two hangers-on who, from honest miners, had been transformed into worse than idlers through the refining influences of the Palace.

Mr. Grant's scheme, as he disclosed it to the half-drunken desperadoes, after much "beating about the bush," simply consisted in having Seth's cabin set on fire. The destruction of the dwelling would, he believed, force Alice and her brother to take refuge at the Palace, since there were no unoccupied dwellings in St. Julian, and also afford a good opportunity of driving Morey out of town. While the house was burning, and when Seth and his sister were in a state of excitement, it would be a comparatively easy matter to get rid of the tenderfoot. This last accomplished, the claim, or at least one half of it, transferred to him, and Alice thrown more or less in his society, was all Conestoga Joe desired. His superior intellect and natural graces of body must perforce command her love in a short

It was a bold plan; but Mr. Grant firmly believed in the adage of "Faiut heart never won a fair lady," and at the same time that the quartette were discussing the details in the 'private office," Alice was using her influence to have the sale consummated.

Big Bill made a few feeble objections to the project after it was unfolded, and Mr. Grant said sharply:

"I had rather have the double claim than



for the claim, and have worked here four months, all of which labor was necessary to find the nugget that has so suddenly increased the value of the property."

It was a spirited discussion which followed, and so engrossed was Alice that all thought of dinner fled from her mind until the lengthenlng shadows told of the approach of night.

"Then it is agreed that the double claim shall be sold to Conestoga Joe," Seth said finally. "We have wasted the entire afternoon, when it might have been possible to de-termine with more certainty its true value."

"In this matter your sister is clearly entitled to the deciding vote, and as she is so eager to pull up stakes I am perfectly satisfied. Suppose you conclude the trade this evenlng."

"Do, Seth, and then we can all go to-morrow. You will have no difficulty in finding a pony for me, and we'll start out like children of Israel in search of the Promised Land, not abounding in milk and honey, but free from such people as Mr. Grant.

"But what is to be done with the household goods I accumulated for your especial benefit?" Seth asked with a laugh.

"Leave them here untll you know where we are to make a permanent home. 'It will be nothing more than a pleasure excursion to start out in search of an abiding place, if we are not hampered with too much baggage."

"Mlss Hammond is right." Ned added enthuslastically. "We shall have a jolly time if nothing more, and I for one am anxlous to set out with such companions."

So far as Seth knew there was no reason why Allce should hlush because of a commonplace remark like this; but yet she did, and, hecom-Ing aware of the fact, ran into the kitchen to hide the suspicious color.

"I can at least walt for my double meal in which dinner and supper is supposed to be combined," Seth said laughingly, "and after The two clambered out of the shaft in that there will be plenty of time to make the

Seth's sister for a wife; but by this plan both are possible. If the shanty catches fire tonight she'll have to come here for a shelter, an' we'll toss up to see which shall have the first chance to make his talk."

"But s'pose the game don't work?" "Its got to unless these chumps lose their

"When are they to begin?"

"Jest after dark, an' then the boys can make a night of it, for a fire'll stir 'em up a bit."

"What's to be done with the tenderfoot?"

"Shoot at him two or three times to let him know what may he expected if he shows fight; but it'll be best not to take very good aim, for we don't want to give her another chance to take care of him

The expression on Bill's face told that he had very little faith in the success of the plan; but he made no further remark, and his silence was accepted as acquiescence.

Mr. Grant lost no time in preparing, after his own peculiar fashion, the men for their work, and so industrious was he in this that by the appointed time they were decidedly under the influence of the liquids administered.

"You're all right now," the proprietor of the Palace sald approvingly. "Get over near the shanty an' watch for a good chance. Remember. Seth's sister mustn't be hurt or frightened very much; but see to it that the tenderfoot is fixed so he'll be glad to sklp."

The men departed to carry out their portion of the nefarlous plot, and Conestoga Joc said. as he rubbed his chin complacently:

"It won't do any harm, Bill, to git into a better rlg, seeln's how we're likely to have company before long."

"Wouldn't It be a give away to show she was

"Perhaps you're right; but I don't like to have her see me in this outfit."

"It may be she won't have--"

Bill ceased speaking very suddeuly, for at this moment the door was opened, and on the threshold the conspirators saw Seth Ham-

Both started in alarm, thinking he had by some possibility learned of their purpose and intended to wreak vengeance upon them, for, quiet though he was, no one in St. Julian ever doubted his courage.

"Hello, Seth," Mr. Grant said, trying hard to speak in a cordial, natural tone. "Come to talk about the claim?"

"That is exactly what I'm here for. Since the very honest inhabitants of St. Julian have given my partner only forty-eight hours in which to get out of town, there is nothing left but to accept your offer. Here is a deed signed by Morey and myself and it is only necessary to pay over the money in order to make the double claim your property."

For a single instant Conestoga Joe was literally bewildered. That the desired transaction should have been brought to a favorable conclusion so soon was more than he had dared to hope for, and the good news deprived him momentarily of the power of speech.

"Have you changed your mind?" Seth

asked impatiently.
"Not a bit of it. I've got the stuff here, an' it won't take five minutes to settle things," Mr. Grant replied; and just at that moment he remembered that the iucendiaries had been away some time; it was already dark and the deed must be prevented now there was no reason for committing it. "Wait a bit while I finish a deal I've been tryin' to make with Bill, unless you're in a big hurry."

"I've got all night before me, so go ahead with your business."

The proprietor of the Palace acted very nervous as he beckoned his partner to follow him out of the room, and when they were at the further end of the saloou where it was impossible for others to hear the conversation, he whispered hurriedly:

"Get over to Seth's house as quick as you know how. The fire musn't be started now when everything is comin' our way, an' if you prevent them drunken fools from doin' the job, an eighth of the double claim shall be yours.'

"I'll fix it, an' mighty glad of the chance,"
Bill said confidently. "It wasn't the right way to set about the business, an' I was afraid of it from the first."

"Don't stop to talk now, for there's no tellin' what may happen.'

Then, as Bill started on his errand, Mr. Graut re-entered the office without noting the fact that his messenger had stopped at the bar to refresh himself.

"Now," Conestoga Joe said in a tone of satisfaction as he seated himself at the desk, "we'll soou have our business settled, Seth. How'll you have the money?"

"I suppose it'll have to be gold, though I had rather take something that is easier to carry." "I can give you half of it in Uncle Sam's notes, an' the balance iu a draft on Peters

of the Junction." "That will suit me exactly," Seth replied; and ten minutes later the matter was settled.

Seth had placed the money in his belt, and was on the point of taking his departure, having refused Mr. Grant's invitation to "take somethin'," when the report of pistol shots were heard, and one of the party in the saloon shouted: "Fire! I reckon its Seth Hammond's shauty!"

CHAPTER X.

THE DEPARTURE.

HEN it was flually settled that the double claim should be sold, and Seth had left the house to accept Mr. Grant's proposition, Alice was in high spirits. St. Juliau, as a place of residence, had become most disagreeable to her, and she welcomed any change which would remove her from the limmediate vicinity of the two hasty

On the other hand, Ned Morey was depressed. near the woman who had saved his life, and his feelings toward her were decidedly different from gratitude.

"Seth thinks he may go East again," he said, when they were alone.

"If this is a fair specimen of all mining camps, I shall not be sorry," she replied. "Besides, this kind of work isu't suitable for him; he should engage in something less arduous." "Then you want to leave this section of the

country ?" "No indeed: I think the climate glorious. aud with different surroundings would like to remain two or three years; but you must con-

fess, Mr. Morey, that St. Julian is not a model

"Although my introduction was far from

FOR SCROFULA

the cure of all scrofulous diseases. the best remedy is

Ayer's Sarsaparilla Cures others, will cure you

being agreeable, I shall always have a certain

affection for this camp, for here—"

He ceased speaking very suddenly, for at
this moment a bright light appeared at one end of the room, and in the least possible space of time the Inflammable bullding was ablaze.

'Water!" Ned shouted, as he ran into the kitchen; where a small supply was always kept; and Alice followed, ready to do her share toward saving the little home.

The flames were at the rear of the shanty where the cook-stove was connected with the wooden chimney, and neither of the inmates thought it other than an accident such as had been often suggested as probable.

At this portion of the house the wall was composed of thin boards, covered with tarred paper, to shut out the wind and raiu, and on such materials the flames fed with amazing rapidity. Before Ned could dash on the second bucketful of water they were licking the ceiling, and the apartment so filled with smoke as to render it imperative for the inmates to scek the open air.

"You go out of doors and I will try to save some of the most valuable things," Ned cried, as he threw open the window.

"I shall do my share," she replied, calmly, taking from its hiding place the nugget, while her companion gathered up an armful of clothing. By the time this slight amount of work had been done, it was dangerous to remain longer within the burning building, and Ned literally forced Alice toward the door.

Mindful only of her safety, he pushed her ahead of him, and as he did so the report of fire-arms was heard, followed by the sharp ping of two bullets, as they struck the casing of the door, hardly an inch from Ned's head. No further explanation was necessary as to the origin of the fire, and understanding that he was the one for whom the shots were intended, he cried:

"Throw yourself on the ground! They will not shoot at you.'

At the same instaut he emptied the chambers of his revolver in the direction from which the reports had come. Alice had not obeyed the Imperative command. Turning suddenly, she placed herself directly in front of Ned, as she said hurriedly:

"If they will not shoot at me, then it will be impossible to bit you."

'My darling! You shall not peril your life for mine." And seizing her by the walst, he would have forced her behind him; but just at that moment was heard another report, and Ned felt the suddeu start caused by pain, as a cry of anguish escaped from her lips.

There was no longer any thought in his mind regarding the cowardly murderers, or the flames which were now so near as to be dangerous. He only knew that the one woman on all the earth to him, was wounded, perhaps dying, and lifting her in his arms, he ran swiftly to the stream which flowed past the buruing building.

Before he could reach this spot the sharp crack of fire-arms rang out again; but this time from another direction, and the voice of Big Bill was heard shouting:

"You drunken hounds, git out of this, if you want to keep whole skins on your worthless bodies!"

"What's the matter with yer?" some one cried from out the shadow. "Ain't we doin' this 'ere thing jest as was 'greed on?"

Ned paid no attention either to the command or reply. The moisture which he could feel beueath his haud, as well as the palor of the face so near his own, were to him positive proof that the girl he loved so dearly had received her death wound, and the sudden grief nearly deprived him of reason.

Laying the apparently lifeless burden gently on the ground, he kissed the lips that were tightly shut because of pain, until a very decided movement of the head told, as he thought, of returning consciousness.

"My darling, speak to me! Speak, my darling!" he cried frantically; and Alice replied

"I would bave done so before, if it had been ssible, for I think the most sensible thing we can do is to stop the flow of blood."

"Why, I thought you were unconscious," be exclaimed, almost as if in rerpoach because of the unintentional deception.

"The pain and the shock made me very faint for a few seconds," she replied, rising to a sitting posture, "and after that your movements were so rapid and energetic that I was hardly a free agent."

There was a certain tenderness in her voice nch as he had never heard before, with no intimation that the caresses had been distasteful, and he was emboldened to repeat them once more before asking:

"Where are you wounded?"

"On the shoulder. I do not think it Is serious, except for the blood letting, and that cau soon be stopped,"

"Is Alice hurt?" a voice, which was trembliug with rage, cried; and Seth stood before the lovers.

"Those villains shot her down after setting fire to the house."

A movement of her hand told where the

wound was, and with one slash of his knife Seth cut the sleeve from the wrist to the elbow. The blood was flowing freely from the upper portion of the arm; but the steadiness of the stream told that no artery had been severed, and, with a touch as tender as a woman's, Seth bandaged it after the fashion of a com-

"Thank God it is no worse," he sald, fervently, rising to his feet, "and now these scoundrels shall pay for this night's work !"

"Don't Seth, please don't think of taking revenge," Alice cried, in an agony of apprehension. "Remember that you are but one against all these lawless men who, if they can plan such dastardly murder, would stop at

"There are two of us to make reprisals," Morey said, as he stepped by the side of Seth and began to load his revolver.

"No, no! You must not do more than defend yourselves; in case we should be attacked. Ned, for my sake, do as I ask."

Seth was not so angry but that he understood by these words what had occurred between the two, and turning, he took Morey's hand in his as he said:

"It seems that there has been more than a shooting match and a fire around here.'

"It is something which needs your sanction." "There is no need of that, for-See! the whole town appears to be on fire!"

The little party had had so much with which to occupy their attention that no heed had been paid to anything around them; but now a sinister spectacle met their gaze. The flames, invoked as an assistant to murder, had spread from Seth's home unchecked during the first excitement of the attack, and had now fastened upon the wood and canvas dwellings which were as so much tinder in their path.

The night breeze swept the fire down the one street of the town at a rapid pace, and already was the Palace in the very midst of the conflagration. The miners were working desperately, but their efforts were of little avail. The only water obtainable must be taken from the stream, and the supply of buckets with which to convey it was limited.

"They might as well try to bottle the wind as do that," Seth said, half to himself. "By to-morrow morning Grub-Stake Gulch will be a bed of ashes. Say, Ned, I reckon it would be a good idea to find your horse. It's a case of leaving without very much ceremony, for Alice must be taken to the junction at once, if she is able to ride."

"Will you go, or shall I?" Ned asked. "Of course, one of us must remain here."

"I reckon you'll make the best nurse just now," Seth replied grimly, as he walked toward where the animal had been picketed. When he returned half an hour later, he was leading Ned's horse, and he shouted while yet some distance away:

"I forgot in the excitement all about the nugget. Did you manage to save it?"

"It is here," Ned replied, and added in a whisper, as he raised Alice's hand to his lips, This is the only nugget to be found in Grub-Stake Gulch, and it is mine."

To Ned and Seth a walk of seventy miles was not a very serious undertaking. Allce declared that she was perfectly able to ride, and her brother insisted that they set out at

"It will be easier to travel in the night, and by starting now we should arrive there tomorrow evening. I'll try to pick up something in the way of eatables, while you, Ned, look about for what will answer as a saddle."

"My own is here. I had left lt out of doors, and, fortunately, delayed bringing it into the house until it was no longer possible to do so."

An hour later, while the glow of the conflagration yet illumined the surrounding country, the three set out, Alice seated comfortably in the saddle which had been arranged for her special benefit, and Ned walking by her side, as he would have the right to do during the remainder of the journey through life, even to the very brink of the dark river.

It may be only necessary to say that Ned is now the happy possessor of both the nuggets of Grub-Stake Gulch; but yet it will not come amiss if two newspaper clippings are here reproduced. The first is as follows:

Probably the most productive mine in this section of the country is the Sweetheart, owned by Messrs. Hammond & Morey, and none has more of a romance. had been wounded, and with her brothe and intended husband was on her way to Five-Mile Junction, when the party halted at daybreak because she was too much fatigued to travel further. Mounting the only horse they had, Mr. Hammond rode on ing the only horse they had, Mr. Hammond rode on ahead, and brought back not only a physician, but a tent and such articles as the invalid might require. In this place, thirty miles from any camp, they remained nearly a week, when it was discovered that they had located on one of the most promising veins either of the gentlemen had ever seen. All the necessary forms of the law were complied with; the vein was christened by the name it now bears, and in less than two months the partners were offered a hundred thousand dollars for a half interest. Mr. Hammond is the active manager, while Mr. Morey divides his time between his beautiful home in Napa valley and the mine, around which a substantial and flourishing the mine, around which a substantial and flourishing town has been built.

The second article does not treat of such a pleasant matter.

Joseph Grant, who died in this town yesterday from the effects of a prolonged debanch, was better known as Conestoga Joe, the founder of St. Julian, a town which sprang up some years ago near what is now known as the Sweetheart mine, and was totally destroyed by fire at the time when it was believed a valuable discovery of gold had been made. Since the conflagration many miners have been there working on grub-stakes; but it is doubtful if anyone ever succeeded in making decent wages ceeded in making decent wages

THE END.

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MY LITTLE CUPS.

BY JOSEPHINE HILL.

Six little cups of high degree, On a tray before me I see; Buff, purple, pink, white and gold. And a dainty blue, of exquisite mold. All of them pretty, bright and gay, Presenting a most bewitching array. But as I admire them one aud all, My thoughts wander off at fancy's call, Aud memory brings back the face of each giver,

Who posed as friend, sweetheart or lover.

First, there comes the remembrauce of one Who really loved me; but he is gone. I was capricious and knew not my heart, And in anger, at last, I said we must

He went his way, and I went mine; But oh, I have thought of him mauy a time.

Enough of this; and uow for sober James.

Who for wit will ne'er set on fire the Thames.

We were only good, solid friends, you know.

Well, what is better on this earth below?

The next on list was a handsome rogue, Who vowed all the vows that have e'er been in vogue,

From Adam down to the present age; But we had a fuss, so he left in a rage, And soon after married (for spite, I'm sure); But time long siuce has effected a cure For any pain his absence inflicted; And tho' once so uear, far apart we have

drifted: But the tears shed for him I assure you were

And now I'll tell of the dainty blue.

It is sweet and fair, with its forget-me-nots blue,

Which seem to say, I'll to you be true; But I know that he's not, for reasons here given:

He was a dashing Yale, from the port of New Haven. Together, one summer, our time we beguiled

In a little flirtation, I believe it's so styled. Many sweet things did he say to me, With a kiss now and then; but that was 400

Ah, well! when at last the season did end. We parted, each feeling the other-a friend.

I'll pass o'er the one to whom I played sister, Aud speak of the giver of the dear Royal Worcester.

Great is its beauty, likewise his devotion, For he favored my every whim and notiou; Excursions in summer, sleigh-rides in winter, Roses at Christmas, bonbons on New Year, While an opera or drama varied the scene, And my life flowed on in a happy dream. He was all that was good and noble to me, A man after my own heart's idea was he.

Yes, six little cups of high degree, On a tray before me I see; Some are purple, pink and white, And taken together, form a pretty sight. Each little cup has a history bold, Which I to you did here unfold. Fancy has now returned with my thoughts, And I view them only as pretty cups. Do I weep or piue for the givers gone? Oh, no, for I married the giver of the last pretty one.

COMFORTABLE HOUSE DRESSES.

There is nothing so dear to a woman's heart as a neat and comfortable dress for the house. Made of becoming color and suitable material, after a simple pattern, they lend a witchery to woman that no other dress does. Never is she so attractive other dress does. Never is she so attractive dress that may be out of style. The in the eye of the man who loves her best original back could be retained, and the ding. It is very easily made, and can be as when thus attired, and finished with a front can be draped with surah silk of a served either cold or hot; but is much soft, long, white apron.

The first can be either of wool or cotton. In either case make the skirt unlined, so surah can go over the old-fashioned coat- experiment, and as my ples were proas to produce the soft, clinging effect. The sleeve, forming a puff on the shoulders. | nounced unusually good, I will divulge

should be so thoroughly cleaned every fall and spring and all the old dresses still kept on hand, I never could understand. One's wardrobe should be quite as thoroughly gone over as anything else. Dresses become ill-smelling by too long wear, and should be refreshed as well as anything else.

This is truer of nothing so much as black dresses. I have sat in public gatherings behind ladies whose black dresses emitted



CHOCOLATE PUDDING .- Maybe others make chocolate pudding as I do, but I have never seen the recipe. I had often made a pudding by breaking up pieces of stale cake, enough to about half fill a pudding dish, making a soft custard with a quart of milk, four tablespoonfuls of sugar, the yelks of three eggs, and lemon or vanilla to flavor, and pouring this over the cake while it was hot; then beating the most sickening odors. A lady who the whites of the eggs to a stiff froth, with



COMFORTABLE HOUSE DRESSES.

perspires freely should renew the waist | a tablespoonful of powdered sugar, spreadto her dress frequently, or have it cleaned at a dyer's. She may be unconscious of the odor herself, but rest assured her friends are not.

Our second model is for evening wear, made of a very light cream, pink or blue, with an overdress of a dark, contrasting color. Around the points it is finished with a very narrow passementerie braid, or it could be a gold or silver braid. The two materials could either be sateen or cashmere, or two silks.

contrasting color, over a pleated vest of nicer served cold. white China silk or crepe de Chene. The

ing thin over the pudding, and putting it in a hot oven for about two minutes.

One day I was making this pudding when I saw about a pint of cold chocolate, that had been left from the evening before. I added a pint of milk to it and made my custard as before. The pudding met with the approbation of the family, and now I frequently add a tablespoonful of grated chocolate or powdered cocoa to the custard, if I do not happen to have the cold chocolate. Bits of cake, cookies, etc., can be The third waist is a model to alter a dried in the oven and kept in a tin can

CRANBERRY PIE .- Yesterday I tried an

the secret. I stewed a quart of cranberries with a teacupful of sugar and three cupfuls of water. When they were done, I wet two tablespoonfuls of corn starch with a little cold water, stirred it into the hot cranberries and added a tablespoonful of butter; then filled my pies, sprinkled a tablespoonful of sugar over the top of each and baked them. This quantity made two large pies.

THE HOME SIDE OF US,-How many of us keep the best side out

we are thoughtful of their feelings, and carefully refrain from finding fault with anything; we appreciate every little kindness shown us, and are quick to express our thanks; but at home we too often take all the little acts of kindness as a matter of course and give work: "Haste not, rest not."

easiest thing in the world to find fault, and in no place is there so much of it as in the home. When everything is in perfect order, the meals on time and cooked to suit the taste, not a word is said, although a little expression of appreciation would go far toward repaying the busy housekeeper, whose work and care has brought all this about; but the moment something goes wrong criticism is not so carefully

A young wife who had only kept house a few weeks, took great pride in keeping everything in the neatest order; but one day, after she had spent much time in sweeping and dusting, when her husband came in, he did not notice anything that she had done, but pointed to a spider's web in one corner of the ceiling, which had escaped her notice.

Mothers often fail to appreciate, or at least to express their appreciation of the children's help. The little feet may run here and there on errands and little hands help in many ways, with never a "thank you" in return; but if some accident happens, some mistake is made, something forgotten, how quickly come the words of reproof.

Let us try to correct this habit, if it has been formed, and give to the dear ones at home the words of praise and appreciation which we so freely accord to strangers,

and guard our lips from all needless fault-finding. MAIDA McL.

JUST THIS YEAR.

May those blessings that wait upon duty, Fall thickly each pathway along; While visions of sunlight and beauty Float up, like some sweet, sacred song.

And may we all strive for perfection; All try for the space of a year, To be just a tiny reflection Of Him whom we each hold so dear.

AMUSEMENTS FOR BOYS.

In a place I once visited there was a boy about eight years old who, much of the time, made life a burden to the rest of us by moving around the house saying: "Do, do, what shall I do? Do, do, what shall I do?" He had a little tune to which he sung it. I don't know whether it was original with him; perhaps he had read about some boy in a book who went around whining and humming, and grunting and groaning: "Do, do, what shall I do?"

"Go and hunt eggs," one of us would suggest.

It didn't seem two minutes till he would be drawling: "Do, do, what shall I do?"

"Go and play with the kittens," would be the next advice. But very soon it would be the same old tune, and all we could contrive would give us only an intermission.

There is no doubt there are many boys who have the same complaint, and what is worse there are many grown boys who never really find something to do, and yet the greatest enjoyment we can feel is in the accomplishment of a good piece of

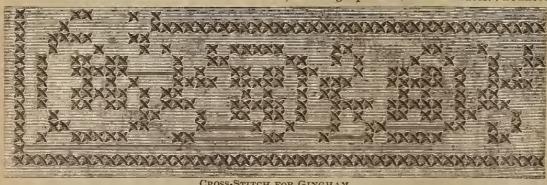


WAIST FOR COMFORTABLE HOUSE DRESSES.

work. To point to some useful object and say: "I did it with my pen, that is the result of my skill with a chisel, this picture I created with my pencil, or this plant I trained from a seed;" these industries give a true joy.

A very wise man gave this good rule for

Now, of course, when boys are out of



CROSS-STITCH FOR GINGHAM.

waist is best fitted of a soft material; can- Buttons finish the lower part of the at home? If we are visiting a friend, ton flannel is good for winter wear and soft drilling for summer. If the dress is a cotton one, do not starch it when it is laundered, as it loses its effect.

They are so simple of construction that, made in cheap challis of dark colors, they can be worn a season without laundering, of these need be expensive. and then disposed of. Why the house

sleeve, and can be put on the outer or inner seam, as preferred. A buckle of steel is attached to the waist. This could be made so as to wear with several skirts. In either model it is the little bows, folds or finishings that give it the style. None

CHRISTIE IRVING.

no word or sign of appreciation. It is the

doors they run and jump and this makes them grow into fine, large, strong men; that is all right and no one wishes to deprive them of this health-giving exercise, no one wishes to call them in to draw pictures or work with tools; but theso latter occupations may well be taken up for evening hours and for rainy days which must be spent indoors. But this one thing is certain, if a boy is to enjoy drawing or carving, or work with a scrollsaw, he must be somewhat taught so that he will have reason to be proud of what he produces. If a boy is clever with his pencil, he will find some picture that strikes his fancy and make a copy of it. But he will be better pleased if he arranges a group of articles and makes a picture of his very own, such as he never saw before. And here comes in the application of the rule: "Rest not, haste not." Having once begun to draw, do not pursue the pastime with breathless eagerness for a few days and then stop, but take it more regularly and keep at it for months. Get a good-sized sketch-book and make one sketch every evening. Date cach one; it will serve afterward as a record of many things besides the sketches. You will remember something which happened the night you drew the picture of an old hat, and your sketch of a basket will remind you of something else. If there are two or three boys and girls in the family, you can compose yourselves into a sketch club and have no end of fun; and once a week you might invite some of your friends in and have a still better time.

Let us imagine you wish to learn to draw. You can find nothing better to begin with than two books such as are in our "still-life study, No. 1." You wonder what "still-life" means. It is a group of things arranged to be drawn or painted which are not alive but real. For instance, a cluster of grapes, a bouquet of flowers. a curtain, etc. Now, understand, you are not to copy this picture of the books, but you are to take one or two real books and draw their picture. You will notice that in No. 1 the light falls from the left side. You are sure that is true from the way the shadows fall. But wait; perhaps it is too hard for you to begin to draw real things. If you think it will help you, make a copy of this first and then try the real books.

First draw the top of the book which lies flat. The position gives it a very different shape from what you know it really is, but you must make it as it appears to be. It is almost the geometrical figure, called a diamond, in appearance, though you know that really the shape of a book is square or a rectangle. There are several long words here, but some large person can explain them to the boys; and I'm sure the boys think there is nothing more amusing than to learn a new word and what it means. Next draw the back of the book. Notice it does not seem so thick at the end farthest away. You must make it as it seems to be, not as you know it really is. Then draw the top edges of the leaves of the book and make the shadow it casts to the right. The binding casts a shadow on the leaves-notice it.

The small book leaning against the

say that "lines the same distance apart seem closer together in proportion to their distance from the observer."

Now look at the "still-life study, No. 2." The top of the open book is as wide as the bottom; but see, it seems much more narrow. It is for the same reason that the railroad tracks seem to get nearer to-

If you copy No. 2, draw the open book first, then put the other one under it. All you need is a soft, black lead pencil and a piece of white paper to make half a dozen sketches of books. You can change the position of the books or you can change your own position, and each time you will get a different view. In order to bring out the shading strongly, look at the picture, or at the real books, with eyes half closed. Always let the light fall on your "still-life" from one side.

KATE KAUFFMAN

From my heart's mysterious undercurrent Comes a silver chiming, sweet and low, And it seems to bring me tender greetings From the love who loved me long ago.

An enchanted world lies hid forever Underneath my life's dull ebb and flow, Only sometimes comes like light from heaven To my dreams this faint reflected glow. -Tr. from Wilhelm Muller.

GLEANINGS.

DECORATIVE PLANT.—A plant which is in bloom is sometimes wanted for the dining table or for the place of honor on the center table, and the red clay pot is hardly | readiness with which half the women you

pourri mixture has been scattered. Take a piece of bolting cloth, which will show about one inch of the silk on every side, and on it paint very daintily in watercolor two or three La France roses; then tack it to the pillow, finishing at one corner with a bow of cream, satin ribbon.

RUBBER WATER BOTTLE.—A rubber water bottle is a very useful article in any family. The water, heated to a boiling point, retains its heat a long time. The bottle being flexible adapts itself to the form of the body, and may be used in the application of moist or dry heat to any part of the body, keeping fomentations warm, and permitting constant change in place without any trouble. A two-quart bottle costs \$1.50 and is a good investment for the money.—Good Housekeeping.

NEVER SHAKE A RUG.-In dusting, do not forget the back of pictures hanging on the wall. A skewer used under the edges of carpets, and a slightly dampened cloth or sponge, will save much dust and labor if occasionally used in place of a broom. Never shake a mat or rug. Remove them to the yard, hang them on a line and beat well; afterward lay them on the grass or clean walk and brush thoroughly with the broom. They will last as long again and look brighter and fresher after this treatment.—Boston Globe.

USE A POSTAGE STAMP.—The value of the postage stamp as a time-saver seems to be unknown to most women. The

No. 2.-Position of Books for Still-Life Study.

decorative enough for its exalted position. Rip up a couple of old straw hats, first wetting them to prevent the straw from breaking, and sew in a shape which will slip easily over the pot, making no bottom. When finished give it a coat of gold paint, and you have quite an ornamental affair, an improvement on the strip of wadding sometimes used for the same purpose.

PEN-WIPERS .-- One of the chief woes of the ready writer, be he clerk or what not, consists in the fact that he no sooner gets a pen into good working order than it, like the "dear gazelle," comes to an untimely end from the corrosion caused by the ink. Life is not long enough to use large one is more difficult. I should first and mend quills nor to apply with deldraw the most distant edge of it, then the licate firmness the pen-wiper to a steel back (I mean where the name of the book one. But some genius has now hit on a is generally printed when I say "the solution of the difficulty, which has the back") and then connect the two. You merit of the most extreme simplicity. In

know will take upon themselves errands that really require a great deal of time, rather than do the errand by the aid of the post, is amusing. Sometimes it is pathetic. A busy woman with many calls upon her time will go a long way to change a pair of gloves or to return a borrowed handkerchief, when a postage stamp would save her an hour of time. Short letters will take the place of calls in nine cases out of ten, when the calls are merely for small errands. The truth is, there is too great a regard for those small expenses which are, after all; economies with most of the less rich half of creation. -Boston Transcript.

SPLASHER.—A unique splasher is made of three palm-leaf fans, tinted in oil colors according to the coloring of the bed-room. If blue, use three shades of that color, one very deep and dark, one bright, third pale blue. Tie them togethor in the shape of a large clover leaf under a ribbon bow.

TO COLOR BROWN.

While brown is one of the richest, handsomest colors, and one that is becoming to almost every lady, yet unfortunately it has been difficult to find a brown that would neither fade nor crock.

Three new browns have been added recently to the DIAMOND DYE colors, Fast Brown, Fast Seal Brown and Fast Dark Brown. As the name implies, these dyes give colors that are fast to light and washing. Goods dyed in them are improved by washing in soapsuds.

A PACKAGE of these dyes will color from one to four pounds of silk or wool goods, according to the shade desired. These colors are made from recently discovered dye stuffs (the process of manufacture being patented) and it is impossible for any one besides the manufacturers of Diamond Dyes to make these FAST

OUR IMPROVED ROVELTY RUG MACHINE uses two needles, coarse and fine. Machine sent by mail for \$1.10. Terms to agente with price lists of machinee, rug patterns, etc., free. To anyone who will act as our agent we will send one Machine and a nice Ottoman pattern with yarn to fill it, with full printed directions and a pattern Book, all by mail, for \$1.50. Address, E. ROSS & CO., TOLEDO, OHIO. State where you saw this advertisement.

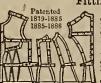


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If your dealer hasn't them, we will mail a sample ir of Soft Lisle (50c.), or Fine Cotton (35c.), or edium Cotton (25c.), on receipt of price. (Stamps poetal note.) Mention size shoe worn.

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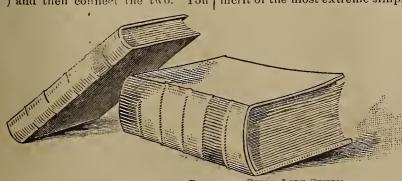
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scription expires.



No. 1.-Position of Books for Still-Life Study.

know that really the back of that book and the side where it opens is of the same length; but see, in the picture it doesn't seem so. The side that is farther away looks to be shorter. That is what we call a rule in perspective. You know when you look up the railroad track the rails seem to get closer and closer together as far as you can see, but you know they are really just as far apart as they are where you stand.

many offices, we are informed, a potato is used instead of a pen-wlper. The juicy tuber holds the pen steady, removes at once all ink from the nib and prevents, or at least very greatly delays the process of corrosion, and spares many a well-loved pen to a ripe old age.

ROSE-LEAF PILLOW.—From creamy India silk make a pillow eight inches long by fourteen wide, and fill it with dried If you were asked to explain this you can rose leaves, through which a little pot- browns.

Our Kouschold.

SWEET PEAS.

We are all admirers of this sweet-scented annual, but many seem to fail in cultivating it. Prepare the ground early, even in March, if there comes a warm spell so that the frost may be out of the ground. Plant the seed quite thick and about an iuch in depth. The soil does not ueed to be so very rich; just good, common garden dirt, enriched with a small amount of thoroughly-rotted manure. Right here is a point I wish amateur flower growers would note and heed. Manure must be old enough to be thoroughly rotted to give most satisfactory results.

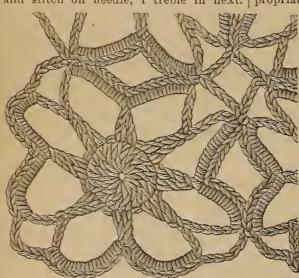
The peas should be furnished with support as soon as they are two or three inches high. Wire netting is excellent. If the vines once get tangled on the ground it is difficult to straighten them. They grow slowly at first, and you will think they are not going to amount to anything, and that they were started too early. Have patience. Keep down the weeds and give them "rope." By and by your care will be rewarded, and thousands of blossoms nod you a happy good-morning. Do not allow seed-pods to form if you wish the bloom to be continuous. It is a good plan to plant a few for seed by themselves in some corner of the garden, where they may mature early and not injure the looks of the flower display.

If you make several different plautings of two weeks between, you will have a succession of bloom all summer. But begin early, or the last planting will probably give you but very few blooms.

LOVEJOY TIDY, CROCHETED IN SQUARES.

First round-Chain 6, join, chain 3, 15 treble in ring of 6 chain, 16 treble, counting 3 ch; join with short crochet to top of

Second round—Chain 4, 1 treble in first treble of previous round; #chain 10, 1 long treble in next stitch, keeping last over and stitch on needle, 1 treble in next.



LOVEJOY TIDY, CROCHETED IN SQUARES.

Now have four stitches on needle; throw thread over and draw through 3 stitches; thread over and draw through the 2 remaining stitches: repeat from * till you have 8 loops of 10 chains; join to top of the jnice of a lemon on a bit of soft cloth,

double crochet under last three fourths of next 10 chains; repeat from * four times; fasten. You now have one square. When making the rest, join them together by two stitches, first and last stitch of chain, and double crochet. ELLA McGowen.

OYSTER SALAD.

Slice or chop very fine, enough white celery to make one pint. Sprinkle bits of icc over it and set away in a cool place. Take one quart of solid oysters, drain the liquor from them and rinse them in a little water; add it to the liquor and boil and skim thoroughly; then put in the oysters and scald, but do not allow them to boil. Then drain them and cut each one in several pieces and pour over them the dressing made as follows: Beat three eggs and add to them one half teacupful of vinegar, two tablespoonfuls of butter, one teaspoonful of made mustard, one half teaspoonful of black pepper, one half teaspoonful of salt. Place the dish containing this in a pan of boiling water and cook until like thick cream, stirring constantly. Do not allow it to boil or it will curdle. Pour this over the oysters, stir lightly and set them away to chill. When

wanted for use, drain the water from the celery, then add the celery to the oysters, toss all up lightly with a fork, place in a salad-dish and garnish with blanched celery tops, and sliced olives if you wish. Nasturtiums with their leaves make a lovely garnish, if one has them growing iu their window, which all should do, as they are splendid winter-blooming plants, and of easy culture.

BAKING-POWDER.

We give the following well-tried recipe for baking-powder, for the lady who requested one:

- 9 ounces of bi-carbonate of soda,
- 4 ounces of cream of tartar,
- 4 ounces of tartaric acid,
- 10 ounces of wheat flour.

Thoroughly sift this several times; then put away in air-tight boxes or widemouthed bottles carefully labelled.

This is from "The Modern Cook Book," published by us, the most complete book of the kind for young housekeepers yet published.

CLIPPED.

TRAINED COOKS .- One of the least crowded and best paid professions for women is that of a trained cook, who, in a most becoming cap and apron, goes out to private houses to prepare company luncheons, company breakfasts and dinners. Some with a taste in this direction have still been fearful of undertaking the work, expecting to endanger their social place. But since women of good families and well known social position are venturing to try their good luck, to show their womanly independence and capabilities for business in all sorts of ways, graduates of cooking schools are not afraid to ask for engagements, and to express their willingness to do the work .-Good Housekeeping.

AN INVALID'S TABLE-CLOTH.-A napkin is never large enough to protect the bedclothes, so take heavy linen, the width of the bed and two thirds of a yard deep; hem-stitch and embroider in some appropriate way .- Good Housekeeping.

OLD GLOVES .- By no means throw away old kid gloves. Cut off the hands and save the long suede arms of your soiled, worn ball gloves. Use them for polishing silver mirrors, cut glass and jewels. Sew two of the long pieces into irregularly-shaped bags for carrying the pieces of silver toilet set when traveling. It preserves the silver from scratching and tarnishing. Out of old tan or gray gloves you can make charming bags for carrying your opera glasses in. Cut the kid in the same pattern as is used for these silk and velvet bags, line it with China silk, aud trace in pen and water colors or silk, your initials on the outside .- Good Housekeep-

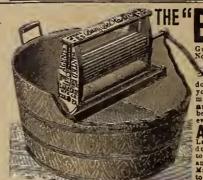
RUSSET SHOE.—Before putting away your russet shoes for the winter you will want to restore their old color. How will you do it? Very simply. Just squeeze give the leather a thorough treatment Third round-* 10 double crochet under | with this, and see if your shoes don't look first three fourths of 10 chains; chain 7, 10 as well as they did when you bought

> RUINED BY FICTION.—There are women today forty years old still living iu the pernicious books they read. They started with bad books, in their teens. They followed bad heroines and may, according to their now diseased minds, find themselves an improvement ou the creatures they imitate. They are, if not actively vicious, silly, unnatural creatures whom everybody ridicules and no one respects. I kuow a vonng woman who has been acting out French novels all her days to the best of her ability, with the result of dressing like a guy when she means to be artistic, acting like a coarse woman when she means to be a siren, and talking absurdities when she means to be enchanting .- Atlanta Constitution.



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year or two; but light the will not be so bright if the wick is

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Our Sunday Afternoon.

WHAT SHALL IT PROFIT?

F I lay waste and wither up with doubt The blessed fields of heaven where once my faith

Possessed itself serenely safe from death; If I deny the things past finding out; Or if I orphan my own soul of One That seemed a Father, and make void the place Within me, where he dwelt in power and grace,

What do I gain, that am myself undone? -William Dean Howells, in Harper's Magazine

NOT GOOD ENOUGH.



OTHING is good enough that is not as good as it can be. The verdict "good enough," says a well known writer, which in boyhood passes the defective task, will become "bad euough" when the habit of inaccuracy has spread itself over the life.

"You have planed that board well, have you, Frank?" asked the carpenter of an apprentice.

"Oh, it will do," replied the boy. "It don't need to be very well planed for the use to be made of it. Nobody will see it."

"It will not do if it is not planed as neatly and as smoothly as possible," replied the carpenter, who had the reputation of being the best and 'most conscientious workman in the city.

"I suppose I could make it smoother," said the boy.

"Then do it. 'Good enough' has but one meaning in my shop, and that is 'perfect.' If a thing is not perfect, it is not good enough for me."

"You haven't made things look very neat and orderly here in the back of the store," said a merchant to a young clerk.

"Well, I thought it was good enough for back there where the things cannot be seen very plainly, and where customers seldom go."

"That won't do," said the merchant sharply, and then added, in a kinder tone: "You must get ideas of that kind out of your head, my boy, if you hope to succeed in life. That kind of 'good enough' isu't much better than 'bad enough.' '

The girls who do not sweep in the corners or dust under things, and the boys who dispose of tasks as speedily as possible, declaring that things will "do" if they are not well done, are the boys and girls who are very likely to make failures in life,

because the habit of inaccuracy has become a part of their characters.

The old adage, "What is worth doing at all is worth doing well," is as true as it was when first spoken, and it will always be true. - Youth's Companion.

RULING THE TONGUE.

Do not talk too much. Learn how to be silent. There is nothing like the man or woman that can keep the mouth shut. Not that people should always keep the tongue still; it is made for use; but there are times when silence is the best and most effective reply. When a boor speaks roughly or uncivilly to you, when you are asked an impertiuent question, when a sneer is conveyed under cover of an inquiry for information, or when, having appealed to you on a question of taste, your opinion is met with ridicule, the best answer in these or like exigencies is masterful silcnce, bespeaking reserve power, conscious strength, dignity, selfcommand; and nothing at times is so effective as the silence which springs from contempt. He who can endure reproach silently, and can keep silent under trying circumstances, is a man of no common character. He who is irritated, and who loses control of tongue and temper, is at the mercy of his opponent. He who can keep calm and cool, can mold men as he will. The cold hammer bends the hot iron. "If auy man offend not in word, the same is a perfect man, and able also to bridle the whole body." James iii. 2.

LOOK TOWARDS THE LIGHT.

A weary and discouraged woman, after struggling all day with contrary winds and tides, came to her home, and flinging herself into a chair, said:

"Everything looks dark, dark."

"Why don't you turn your face to the light, aunty dear?" said a little niece who was standing near.

The words were a message from on high, and the weary eyes were turned towards Him who is the light and the life of men, and in whose light alone we see light.

"Turn your face to the light," oh weary watcher; you have looked and longed and struggled in the darkness without avail; now turn your glance the other way! "God, who commanded the light to shine out of darkness, hath shined in our hearts, to give unto us the light of the knowledge of the glory of God in the face of Jesus Christ," and if we will look towards the light, and walk in the light,

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VARIETIES OF

we shall find blessing and peace all along our way, and even amid darkness and shadows shall rejoice in the hope of the glory of God, the light of an unsetting day.-H. L. H., in Bible Standard.

A SMILE.

Who can tell the value of a smile? It costs the giver nothing, but is beyond price to the erring and unrelenting, the sad and cheerless, the lost and forsaken. It disarms malice, subdues temper, and turns hatred to love, revenge to kindness, and paves the darkest path with gems of sunlight. A smile on the brow betrays a kind heart, a pleasant friend, an affectionate brother, a dutiful son and a happy husband. It adds a charm to beauty, decorates the face of the deformed, and makes a lovely woman resemble an angel in paradise.

VALUE OF A CHRISTIAN CONSCIENCE.

Every Christian father or mother who has ever heard the click of the latch (that cruel pistol shot aimed at the heart), as it springs for the last time behind son or daughter going forth into the world, knows that the most blessed balm for the wounded heart is the assurance that the quirer.

loved one carries the surest antidote against moral poison, that safeguard against moral contagion-a Christian conscience. Yet how many are left with the bitter thought that they have neglected to inculcate this principle. But you fathers and mothers who yet have your little ones about you, see to it, before the heartaches come, which shall start a hitherto unopened fountain of tears, that those tears are robbed of this bitterness.—Christian at Work.

READING THE BIBLE.

It is one thing to eulogize the Bible. It is another thing to give it careful and daily reading and meditation. The magdaily reading and meditation. The magazine and the newspaper are anxiously looked for, and hours are given to their perusal. The Bible may be read daily, but the reading may be simply to ease one's conscience and without any thought of its divine authority and health-giving tendency to the soul. Henry Martyn, the missionary, would never allow himself to missionary, would never allow himself to read a book one moment after he felt that it was gaining a preference in his mind over the Bible. As long as he could turn to his Bible with a supreme relish, he would continue reading, and no longer. How few would think of establishing such a criterion in literature. Chairling In a criterion in literature.—Christian In-

A State How many people there are who regard the coming of

winter as a constant state of siege. It seems as if the elements sat down outside the walls of health and now and again, led by the north wind and his attendant blasts, broke over the ramparts, spreading colds, pneumonia and death. Who knows when the next storm may come and what its effects upon your constitution may be? The fortifications of health must be made strong. SCOTT'S EMULSION of pure Norwegian Cod Liver Oil and Hypophosphites of Lime and Soda will aid you to hold out against Coughs, Colds, Consumption, Scrofula, General Debility, and all Anamic and Wasting Diseases, until the siege is raised. It prevents wasting in children. Palatable as Milk.

Gleanings.

COMMON SENSE WEAR.

Yall means the most sensible thing for women's wear since the advent of shorter and lighter petticoats, is the leather leggins that are to be had-not for the asking, but for the ordering-for they are made only to order, and for a five-dollar bill besides. These are exactly such leather leggins as little boys wear, only they are made of softer and more pliable leather, the nicest kind being of glove kid. They may be worn over low shoes or street boots, and they give the legs just the proper protectiou against cold and damp. For, nonsense aside, the legs of women from the knee down to the boot tops are most inadequately clad.

Think of the inconsistency of it for a moment. A woman wraps the upper part of her body in garment after garmeut, and for out-door wear puts a fur garment on top of these. Her petticoats keep her warm to the knees, and her shoes, if they are of any adequate thickness whatever, protect her feet. But from the knee downward there is often but a single web of silk or wool, or at the most one of each. Not only is this insufficient, but its insufficiency is helped out by the disproportion between this covering and that of the rest of the body. With no end of cloth and fur to keep the upper body in a perspiration, what is to be expected but a chill that nothing but heaven itself can keep from inducing pneumonia or bronchitis?

TO KEEP THE HAIR BRIGHT.

To keep the hair bright, healthy and to preserve its color, abstain from the use of all minerals, even soda, in washing it. Use only warm water and pure castile soap; cleanse the scalp thoroughly with a brush, and wash the hair straud by strand. After rubbing well with a towel, dry it by piece between the warm palms, and this method will coerce any threads of latent gold into shining. Clip the the ends once a month. Brush it carefully morning and night. Avoid liquid extracts and perfumes, as they make the hair coarse and brittle. The following is a good way to obtain a delicate perfume:

Make a mob cap of silk, aud between the thin lining lay layers of flat cotton filled with satchet powder. After brushing the hair, shake it out and push it loosely under the cap for half an hour every night and morning. A deliciously-vague, faintly-penetrating perfume is captured in this way .- Philadelphia Record.

Recent Bublications.

CATALOGUES RECEIVED.

Illustrated descriptive catalogue of the Improved Excelsior Incubator and Brooder, and other useful appliances of the modern poultry yard. George H. Stahl, Quincy, Ill.

Catalogue of select roses. Ellwanger & Barry,

Rochester, N. Y.

Seed Potatoes. L. L. Olds, Clinton, Wis.
Pomona Nurseries. Fruits and plants.
William Parry, Parry, N. J.
Choice flower seed, bulbs, plauts, etc. Lockwood Myrick, Northboro, Mass.
Seed annual for 1891. Garden, field and flower seed, complete line. D. M. Ferry, Detroit, Mich.
Seed potatoes. Theron E. Platt, Newtown.

Seed potatoes. Theron E. Platt, Newtown, Bloomington Phænix Nurseries, Bloomington,

Stillwater Valley Nursery. Warreu Hartle, Covington, Ohio. Fruit trees, plants and vines. Excelsior Sprayer and Spraying Pumps. William Stahl,

Sprayer and Spraying Pumps. William Stahl, Quincy, III.
Grape vines, small fruits and seeds. Joel Horner & Son, Delair, N. J.
Oakland Nurseries, Forgy, Ohio.
"The whole story of the garden, lawn and farm." Spring catalogue. Vaughan's Seed Store, Chicago, Ill.
Garden, field and flower seed. Franklin Ely, Doylestown, Pa.
Catalogue of the new Acme pulverizing harrow, clod crusher and leveller. Duane H. Nash, Millington, N. J.
Bee-keeping in Dixie, and price list of apiarian supplies. Jenkins & Parker, Wetumka, Ala.

Ala.

Descriptive circular of "Osgood" scales.

Every farmer who believes that farming
should be conducted on business principles
should read what this catalogue says about arm scales. Osgood & Thompson, Bingham.

Catalogue of plants, trees, graded and tested seeds. Michigan Seed Co., South Haven, Mich.

We act liberally and honorably with afflicted persons and prove to their satisfaction that they have NOT TRIED ELECTRICITY AS A CURATIVE UNTIL THEY HAVE WORN THE PULVERMACHER ELECTRIC BELT.

This involves proving as well that all other belts and appliances are either colorable imitations or are entirely non-electric.

We undertake to do these things, and we cannot afford to make any misrepresentations.

This is in conformity with our business policy as PIONEERS in the manufacture of electric body-wear —larger manufacturers and dealers than all other concerns combined.

PULVERMACHER'S ELECTRIC BELT

CURES ALL NERVOUS, PAINFUL AND WEAKENING DISEASES,

NERVOUS AND GENERAL DEBILITY, PHYSICAL WEAKNESS, EXHAUSTION, ALL NERVOUS COMPLAINTS, DYSPEPSIA. NEURALGIA, RHEUMATISM, FEMALE AILMENTS, STOMACH, LIVER AND KIDNEY DISORDERS, &c., &c.

PULVERMACHER'S ELECTRIC BELT WILL LAST FOR YEARS-SAVING MUCH SUFFERING, WORRY, TIME AND MONEY.

INTRODUCED IN ENGLAND, FRANCE AND GERMANY IN 1843; IN THE UNITED STATES IN 1876.

ENDORSEMENTS AND REPUTATION WORLD WIDE.

THIRTY-ONE AMERICAN AND FOREIGN PATENTS HAVE BEEN GRANTED, INCLUDING ALL LATE IMPROVEMENTS.

> YOU TAKE NO RISK. WE DO BUSINESS IN THE GOOD OLD-FASHIONED WAY. IT IS TO THE INTEREST OF SICK, WEAK, OR AILING PERSONS TO WRITE US. WE CAN BE OF SERVICE TO THEM

Read the following Unexampled Offer:

BELT SENT SAMPLE OF

We take pleasure in sending by mail to afflicted persons who may be interested in our electric treatment, for home use, a FREE sample of the Pulvermacher Electric BeIt for examination. This sample enables patients to judge for themselves of its genuine electric character, and to see at a glance that it is different in every particular of construction, and in the materials used, from any of the so-called Curative Appliances which may have been brought to their notice.

They can further understand from the intricate and scientific arrangement of the metals and absorbents that complicated and costly machinery (which we alone have the right to use) is necessary in its manufacture, thereby precluding any possibility of imitating or infringing it.

We are the only manufacturers of genuine Electric-Curative Appliances, and WE ALONE send samples for examination. The concerns which advertise belts and other appliances in competition with ours DO NOT submit samples in advance of purchase, as they are aware that even a novice in electricity would condemn their bogus contrivances AT SIGHT as worthless. The sample we propose to send is a perfect, full size, fac-simile section, including negative pole of the Pulvermacher Electric Belt, and corresponds precisely with our descriptions and representations.

DO JUST AS WE

The afflicted have been imposed upon to such an alarming extent by dealers in all sorts of so-called electric, magnetic and voltaic belts and other appliances that it gives us pleasure to state that our plan of sending samples (which other dealers WILL NOT DO), has been the means of forestalling further imposition upon afflicted persons by SATISFYING THEM BEYOND QUESTION that the Pulvermacher Electric Belt is the ONE and ONLY BELT suitable in every way for practical medical purposes.

The sample of Belt is sent by return mail, secure from observation, to every alling person on receipt of "Order for Sample" form below. It may also be had on application or on request

[Samples can be returned, without any cost, in same box in which they are received. We furnish, in every case, a postpaid, printed addressed wrapper for the purpose.]

ORDER FOR SAMPLE.

Pulvermacher Galvanic Co., 172 and 174 Race street, Cincinnati, Ohio.

Send me by mail, without charge, a sample of the Pulvermacher Electric Belt, as proposed by you.

County

WITH THE **SAMPLE** WE MAIL A COPY OF "THE ELECTRIC REVIEW" AND APPLY for PARTICULARS. OUR "GENERAL PAMPHLET" OF 112 PAGES, CONTAINING FULL PARTICULARS OF THESE NOTED CURATIVE APPLIANCES, FOR ALL OF WHICH YOU ARE NOT CHARGED ANYTHING.

Address PULVERMACHER GALVANIC CO.,

172 and 174 Race St., Cincinnati, Ohio.

Preserve the above "order for sample" or apply NOW, while you have our address before you, as this offer appears in the papers only occasionally. Please mention the FARM AND FIRESIDE.





BEES AND HONEY



Write for Illustrated Catalogue. No. 18. CENTRAL EXPANDED METAL CO. 116 Water St., Pittsburgh, Pa. Hardware Men keep it. Give name of this paper.

Always mention this paper when answering advertisements, as advertisers often have different articles advertised in several papers.

Barnes' Foot Power Machinery, WORKERS OF WOOD OR METAL, without steam power, using outfits of these Machines, can bid lower, and save. Mention this paper when you write



CENTS (silver) pays for your address in the whirling all over the United States, and you will get hundreds of samples, circulars, books, newspapers, magazines, etc., from those who want agents. You will get loss of good reading free and will be WELL PLEASED with the small investment.

ment. Dist containing name sent to each person answering. T. D. CAMPBELL, B 74, Boyleston, Ind.

\$45.25 BUGGIES \$70,00 PHAETONS

SOLD DIRECT TO CONSUMERS. ILLUSTRATED CATALOGUES FREE. THE FOSTER BUGGY & CART CO. 32 Pike Bldg. CINCINNATI, O.

Our Miscellany.

THE sun yields 8,000,000 times the light of the

THE population of the earth doubles Itself in 260 years.

BEECHAM'S PILLS act like magic on a Weak

THE word "its" occurs only ouce in the

wbole of the Bible. THREE female physicians are doing a thriv-

More than 200,000 people are confirmed in the English church every year.

ing huslness in Adrian, Mich.

THE total cost of railroads in the United

States has been nine billion doliars. In Bulgaria only seven and a haif per cent of the population can read and write

SIXTY voyages around Cape Horn have been made by Captain Holmes, of Mystic, Conn.

An immense quarry of lithograph stone has been discovered about 100 miles from San An-

THE one part of the world in which no native pipes and no native smokers have been found

In 1836 only 109 patents were issued in the United States; in 1889, 32,600, the largest number ever known.

SIX THOUSAND different species of birds are known, and of these Europe possesses 503 and North America 471. PITTSBURGH claims to have more million-

aires in proportion to her population than any other city in the world. THE present output of white lead in the

United States is estlmated at 70,000 tons, and of linseed oil 25,000,000 gallons. An Education Without Cost, for Boys and Girls. Write the American Farmer, 125 Clark

Street, Chicago, Ill. Mention this paper. THE sliver product of the United States,

which was \$100,000 in 1859, has risen to an average of \$55,000,000 in the last five years.

ALASKA cost only \$7,000,000, and the revenue to the national treasury is expected to amount to \$3,000,000 a year for the next twenty years.

URANIUM is now classed among the rare metals; on account of its electrical resistance it is likely to be used in electrical insulation.

THE national debt of Germany, which is much smaller than that of any other great country in the world, is, in round figures, \$192,000,000.

A GEORGIA postmaster is in trouble. Through a hole in the roof of hls office the rain poured in one night and stuck together two hundred dollars' worth of postage stamps.

FOR troublesome weeds and for grass in sidewalks, driveways, etc., apply a dressing of coarse sait; this will kill the growth. Be careful not to put it on anything that should not be destroyed, however.

We will mail free to any address a copy of our Home Treatment, a positive cure for all complaints, and weaknesses peculiar to females. Send self-addressed stamped envelope. MayFlower Med. Co., 85 LaSalle St., Chicago, Ill.

Of the entire race, 500,000,000 are well clothed -tbat is, they wear garments of some kind to cover nakedness; 250,000,000 habitually go naked, and 700,000,000 only cover the middle parts of the body; 500,000,000 live in houses, 700,000,000 in huts and caves, aud 250,000,000 virtually have no place to lay their heads.

AN UGLY COUGH, even when it appears deepseated, can be alieviated, if not immediately removed by Dr. D. Jayne's Expectorant, a popular and long-established remedy for Bronchiai and Asthmatic Affections, and for fifty years an approved helper for all Lung Com-

THE embalming art dates back to 4,000, or thereabouts, B. C. It was a religious rite, therefore practiced by both rich and poor, and costing from about \$500 to \$2,000, and in case of rich people to a much higher figure. Fifteen miliion dollars is the figure put by Rawlinson as the yearly expense to the Egyptians of embalming their dead.

For catarrh suuff up considerable salt aud water from the hollow of the band every moruing. Salt and water, used as a gargle just before going to hed, strengthens the throat and heips to prevent bronchial troubles; it is also excellent for sore throat.

IF anything catches fire, or something hurning makes a disagreeable smell or smoke, throw salt upon it at once. If a bright, clear fire is quickly desired, it may readily be ohtained by throwing salt upon the coals; likewise, if too much hiaze should resuit from dripping of fat from broiling steak, ham, etc., salt will subdue it .- Good Housekeeping.

CONSUMPTION CURED.

An old physician, retired from practice, had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Bronchitis, Catarrh, Asthma and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all Nervous Complaints. Having tested its wonderful curative powers in thousands of cases, and desiring to relieve human snffering, I will send free of charge to all who wish it, this recipe in German, French or English, with full directions for preparing and using. Sent by mail, by addressing, with stamp, naming this paper, W. A. Noyes, 820 Powers' Block, Rochester, N.Y.

Two wealtby Jews, of Bagdad, now own all that remains of the ancient town of Bahylon.

THE Cblnese are said to produce a remarkable anesthetic by placing a frog ln a jar of flour and irritating it by prodding it, when the creature exudes a llquid which forms a paste with the flour. This paste, dissolved in water, has well-marked anesthetic properties. After the finger has been immersed in the liquid for a few mlnutes it can be cut to the hone witbout auy pain being felt,

To the question, "Who invented spectacles?" an answer has beeu given by the Italians in favor of one of themselves. In Florence, in a little street, a memorial tablet has beeu inserted in the facade of one of the houses, and bears the following Inscription: "To honor tbe memory of Salviuo Degii Armati, iuventor of, spectacles in the thirteenth century, the Guild of Artisans, ou the spot once occupied hy the houses of the Armati, placed this tablet."

THE domestic laboratory in Mr. Dwight L. Moody's seminary at Northfield, which was the subject of an illustrated article in Bazar No. 7 of the current volume, was organized by Miss Huntington, of the Wilson Mission Kitchen-Garden in New York, and is carried on by teachers of her training. One hundred girls are here taught housewifery, sewing, cooking, washing, table-waiting and fine lauudry-work as exact sciences, aud not as make-shift employments. Mr. Moody's seminary was founded for pupils having high aims hut small means, who may by its means ohtain a thorough education at the lowest cost, with the tacit understanding that every graduate, both of its academic and domestic science courses, will be moved to teach what sbe has learned, either privately or professionally.

GOOD WORDS.

BROOKLYN, N. Y., Jan. 26, 1891. The Cook Book, with one number of your paper, was received. I think your paper is most excelient and the Cook Book nicely compiled. I thank you very much for the generous gift, and hope to use it much in my home. I hope to soon find one or two new subscribers MRS. C. E. TEALE. for your paper.

CALUMET, Mo., Jan. 25, 1891. I got the pictures all right, and am well pleased with them. They are splendid.

MRS. A. M. BROWN.

GALVESTON, TEX., Jan. 24, 1891. I received the two pictures in nice order, and am pleased with them. I tbink them MRS. S. PASK. lovely. Many thanks.

MICCO, FLA., Jan. 24, 1891. The Peerless Atlas has come to hand, and, I am happy to say, far exceeds my expectations in reference to its entire makeup, typographically and statistically.

PROF. J. W. P. JENKS.

MARTIN SPRINGS, TEX., Feb. 1, 1891. I received my Sewing Machine in good order. I have tried it and find it to he just as recommended. It sews all right, and is just as fine looking as machines sold here for \$45 and \$50. M. R. HASWELL.

WOODLYN, OHIO, Feb. 2, 1891.

I received the Singer Sewing Machine aud Cook Book all O. K., and would say that the machine is better than I expected for the money, and just as good as they sell here for \$55.00. My wife is very much pleased with it. H. F. ALKIRE.

NORTH ATTLEBORO; MASS., Feb. 3, 1891. I received the Peerless Atlas all right, and I like it very much. I would uot part with it for \$5.00 if I thought I could not get another one, and I shall let all my friends see what a nice purchase I made. HUGH REILLY.

PAWTUCKET, R. I., Feb. 6, 1891. Atlas and Cook Book have arrived. My family are much pleased with both. My wife and daughter say the Cook Book is fine, and my boys say the Atias is "a dandy." So you have pleased us all.

WAYNE, MICH., Feb. 8, 1891. The Cook Book came to hand last week, and my wife says it is beyond compare with the finest

of a half dozen expensive ones she has. E. S. JAMESON.

PARRY SOUND, ONT., CANADA, Feb. 11, 1891. I received the Atlas, and am very much pleased with it. It is a beautiful hook, and ought to he weil received. I am more thau pleased with it. R. R. HALL.

I received the dishes yesterday in good condition. I am very well satisfied with them and should I wish anything in your line in

SALIDA, CAL., Feb. 8, 1891.

E. M. VAN NESS. PORT WASHINGTON, N. Y., Jan. 21, 1891. Received the Atlas yesterday all right. It is very useful and instructive. P. E. BURTIS.

the future will favor you with my order.

PINE BLUFF, ARK., Jan. 24, 1891. I received the premium, High-Arm, Chicago Singer Sewing Machine, and it is A No. 1. My wife thinks it cannot be excelled. I would not take \$50 for it. It runs all right, and I am very much pleased with it. NAT DUGGER.

EDINBURGH, OHIO, Jan. 5, 1891. I feel greatly pleased with this beautiful painting, "Christon Calvary," which I recently | much pleased with it,



ENGLISH DECORATED

Premium with an order of \$20.00.

Packed and delivered at depot for \$9.00 cash.

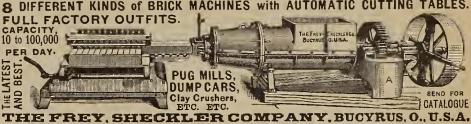
()R we give this Set as a Premium to those who get up a Club of \$20.00 for our Teas, Spices and Extracts. We are Importers of Tea, Coffee and Crockery, and sell direct to Consumers. We want YOU to send for our 120-page Price and Premium List. It tells the whole story. Costs you nothing. Will interest and pay you.

We have hundreds of other sets, Plain and

Decorated.

THE LONDON TEA COMPANY. 795 Washington Street, Boston.

BRICK MACHINERY also TILE MACHINERY 8 DIFFERENT KINDS OF BRICK MACHINES WITH AUTOMATIC CUTTING TABLES.





weather.
Weight 40 lbs. E.THOMPSON & SONS, W No. 12 River Street, YPSILANTI, MICH.

Cows are all right

in their place, but on your lawn or in your dooryard, Never! Protect yourself and beautify (without concealing) your lawn by using a "HARTMAN" STEEL PICKET FENCE.



We sell more Lawn Fencing than all other manufacturers combined because it is the HANDSOMEST and BEST FENCE made, and CHEAPER THAN WOOD.

Our "Steel Picket" Gates, Tree and Flower Guards, and Flexible Steel Wire Door Mats are unequalled. A 40 page illustrated catalogue of "HARTMAN SPECIALTIES" mailed free. Mention this paper.

HARTMAN M'F'G CO.,

WORKS: BEAVER FALLS, PA.

BRANCHES, 102 Chambers St., New York; 508 State St., Chicago; 73 South Forsyth St., At-lanta; 1416 West Eleventh St., Kansas City.

received; it far surpasses my expectation. I wili frame It and place it by the one I received one year ago, "Cbrist Before Pilate." I prize them beyond limit. With many thanks LESLIE A. HALL.

NORFOLK, VA., Jan. 6, 1891.

I received the two pictures in perfect order, "Christ Before Pilate" and "Christ on Calvary." I have had them framed and they make a handsome pair. I appreciate them very M. F. CHAPMAN.

PERTH AMBOY, N. J., Jan. 7, 1891. We received the pictures, "Christ Before Pilate" and "Christ on Calvary" all right, for which accept our thanks. I do not see how you can afford to give those pictures at that MRS. WM. BOLMER.

SCOTTSVILLE, KAN., Jan. 5, 1891. I received the picture, "Christ ou Calvary," in good order and would not part with it. Please accept my many thanks.

MRS. ALICE V. RINGER.

ELLICOTT CITY, MD., Jan. 11, 1891. I received the beautiful picture, "Christ Before Pilate," yesterday, and found it to be just as represented. I will do all that I can to introduce your paper. WILLIAM. A. HILL.

NEWPORT, WIS., Jan. 6, 1891.

I return my thanks for the two heautiful plctures, "Christ Before Pilate" and "Christ on Calvary." We can't appreciate them enough. I wouldn't give them up for ten times the cost. Everyhody that sees them likes them so well I think they will subscribe.

MRS. FRANCES TRUCKER.

PATERSON, N. J., Jan. 9, 1891. I received your beautiful picture, "Christ on Calvary," for which I am well pleased. I also received "Christ Before Pilate" for last year's subscription, and it gives me great pleasure to show it to my many friends.

MRS. C. A. MILLER.

CARO, MICH., Jan. 26, 1891. I received the Atlas and would not take \$5.00 for it if I could not get another. I am very JOHN W. CRAM.





oky by sample only can live at home. We furnish Team Free, Full particulars and cample case Free. We mean just what we say, and do exactly as we egree. Address at once, Standard Silverware Co.; Boston, Mass

Mention this paper when you write.



LADIES have great success selling this Washer. Retail price only \$5. Sample to those desiring an agency \$2. Also the Celebrated KEYSTONE WBINGERS at manufacturers' lowest prices. We invite the strictest investigation. Send your address on a postal card for further particulars. LOVELL WASHER CO. 101 Huron St. ERIE, PA. Mention Farm and Fireside when yon write.

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on this paper when you write

To introduce our goods we will give \$200 to the first person telling us before June 1st, 1891, where the word Father is first found in the New Testament; to the next, \$125; to the next, \$100; to the next a Solid Gold Watch; to the next a Solid Gold Ring; to each of the next as Elegant Diamond Earrings; to the next as Liegant Diamond Earrings; to the next as Liegant Diamond Ring; to each of the next 25 a Solid Gold Filled Watch; to the next 50 each a valuable and choice Business or House Lot; and to each and every one who answers this, whether correct or not, we will send the following: 100 Newest Designs fr Fancy Work; 25 Complete Novels, Dickens, Wikhle Collins, and others; 125 Moncy-Making Gecrets; 100 Latest Songs; 250 Mottoes and Verses for Albums; 75 Conjuring Tricks; 60 Charades, Enigmas, Rehuses, the Game of Nine Penny Morris, the Great \$500 Prize Puzzle; Album of the World's Celehrities: 200 Pictures; The Seventh Book of Moses; 25 Fireside Games; 25 Artistic Emhroidery Letters; Buckner's Wonderful Music Chart, a complete Self-Instructor for Piano and Organ, price 25 cents; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune; Deaf and Dumh Alphabet; Kismet, the Oracle of Fate; The Great Five Column Game of Fortune;

Smiles.

TWO PROFESSIONS.

HE.

You ne'er can object to my arm around your waist,

And the reason you'll readily guess; I'm an editor, dear, and I always iusist On the "liberty of the press."

SHE

I'm a minister's daughter believing in texts, And I think all the newspapers bad; And I'd make you remove your arm, were it not

You were making waist places glad. -G. E. Throop, in Life.

"Oh, would that hand were miue!" he said. And smiled at her so sweet; But not a tremor filled her heart; She coolly kept her seat.

Because the hand he wished to own, Of flesh and blood was not; 'Twas only just a royal-flush She held that scooped the "pot." -New York Herald.

DID NOT DISOBEY.

HOMAS, you have disobeyed your old grandfather." "No, I didn't, ma."

"Yes, you did. Have yon not been in swimming?" "Yes, ma." "Didn't I hear him say to

you not to go in swimming?" "Oh, he didn't tell us that; he only came out and said: 'Boys, I wouldn't go in swim-

ming,' and I shouldn't think he would, an old rhenmaticky man like him, but he didn't say nothin' about our going in swimming."

NOTHING VERY NEW.

Mrs. De Visite - "Good afternoon, Miss Blank. Is your mother at home?" Miss Blauk-"No. She has gone to Mrs. De l

WANTED THE DIRECTIONS.

Mrs. O'Rourke-"I wish yez would give me an order for some medicine, your riverence, for little Jimmy here. He's been ailing for two wakes

Father Reilly-"I think a little soap and water would do him as much good as anything."

Mrs. O'Rourke-"Would yez give it to him before or afther his males, your riverence?"-

THE SMART OFFICE BOY.

Distinguished individual-"Possibly, sir, you do not remember me. Years ago I was your office boy. One day you sent me out with \$10 to buy stamps. I took that money, invested it, and realized a cool \$100,000."

Great merchant-"Well, I'll forgive you. What do you want now?"

Distinguished individual-"I would like to borrow another \$10."-New York Sun.

ARTLESS INNOCENCE.

Mother (gazing at her daughter's dressing cushion)-"Why, where did you get so many gentlemen's scarf pins?"

Daughter-"I don't kuow myself. I find one in my hair almost every night after Gus calls, and to save me I can't imagine how they get there."

HE COULD BEAR IT.

"The operation," said the surgeon gently to the man who had just met with an accident, "will be very painful. I strongly advise you to take an anæsthetic."

"No," said the sufferer, "I think I can bear it. I have been used to shaving myself."-St. Joseph News.

USES OF SOCIETY.

Maiden-"It seems to me society is useful only to people who want to get married."

Matron-"You mistake, my dear. It is equally useful to people who are married and want to forget it .- New York Weekly.

AGAINST THE LAW.

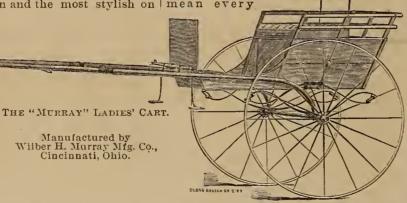
Anxious youth-"Here's a letter I want for-

THE "MURRAY" LADIES' CART.

The illustration on this page represents the "Murray" Ladies' Cart, built on their celebrated Comfort Springs, which are absolutely free from horse motion, and ride as easy as a buggy. This Cart is the latest English pattern and the most stylish on mean every

full line of all kinds of Harness and Vehicles at unapproachable low prices. They sell the "Murray" Ladies' Cart here illustrated for \$44.35, and when we say that it is worth twice

the price we



\$5.95 Harness and \$55.95 Buggies and a "Murray" Vehicles and Harness.

Manufactured by Wilber H. Murray Mfg. Co., Cincinnati, Ohio.

the market; it is manufactured by word of it. Write to them for their large, Wilber H. Murray Mfg. Co., Cincinnati, illustrated catalogue, containing net cash Ohio, who make the celebrated Murray prices and full description of all their

Mugg's Progressive Conversation Party. By the way, what sort of a party is that, Mrs. De Visite?"

Mrs. De Visite-"It is one at which the conversation begins with art, science and literature, and progresses very rapidly to fashion, gossip and servants."-Street & Smith's Good News.

SHE WAS BUSY.

"My socks are not darued," complained Mr. Cumso, on Sunday morning.

"I had no time to darn them," replied his wife. "It took me all day yesterday to write that article ou 'How to make home attractive to your husband,' for the Woman's Whirled."

TOO MANY NEGATIVES.

"No, Mr. Van Dusen," said the prond, young Boston beauty, as she flashed her glorious orbs upon him, "I shall never allow no man to

And Mr. Van Dusen promptly folded her to his arms.

RIDING A BICYCLE.

Mrs. Biossom (to her husband, who has come home with a black eye)-"That's what you get for riding a bicycle."

Mr. Blossom (mournfully)-"No, my dear, it's what I get for not being able to ride onc."

A SURE SIGN. Dubson-"I feel certain that Jenkins is in financial distress."

Noblit-"Why?"

Dobson-"He is beginning to live very extravagantly."-The Epoch

CAUSE FOR THANKSGIVING.

Wife-"It's kind of you to put on my rubbers for me."

Kneeling Husband (tugging away)-"it is

warded right off. It contains a proposal of marriage to my dear lady."

Postmaster-"Very sorry, but we cannot permit it in the mails. Marriage is a lottery and we forward no letters pertaining to that

THEY MANAGE THINGS BETTER THERE.

Mr. Godet (surveying the debris on Broad-

way)-"I wish I lived in Pompeil." Mr. Stillman-"Why, that town is as dead as

Mr. Godet-"I know it: but the streets there have only been torn up once in two thousand years."

Philadelphia."

LITTLE BITS.

Newsboy-"Extra Sun!" Jenks (who has just heard of the new twins) -"Yes, just my luck."-Yale Record.

Dr Johnson was once seated in the midst of a large dinner party. He inadvertantly placed In his mouth a hot potato, but, suddenly eject-Ing it, he turned to the hostess with this remark: "Madam, a fool would have burned himself."-Argonaut.

Stranger (in Detrolt)-"Is the whole population of this city near-sighted?"

Citizen-"Oh. no." Stranger-"Then why are you all wearing

eye-glasses?" Citizen-"It is immodest to see with the

naked eye."-Jeweler's Circular.

True Merit Appreciated. - Brown's Bronehial Troches are world-renowned as a simple yet effective remedy for Coughs and Throat Troubles. In a letter from Hon. Mrs.

Pery, Castie Grey, Limerick, Ireland, they are thus referred to: "Having brought your 'BRONCHIAL TROCHES' with me when I came to reside here, I found that, after 1 had given them away to those I considered required a-a-pleasure, my dear. Still, I am glad that the noor people will walk for miles to you are no centipede."-Kate Field's Washings wet a few." Obtain only "Brown's Bronchial Trocites." Soid only in boxes.

FOR BILIOUS & NERVOUS DISORD

Such as Wind and Pain in the Stomach, Fullness and Swelling after Meals, Dizziness, and Drowsiness, Cold Chills, Flushings of Heat, Loss of Appetite, Shortness of Breath, Costiveness, Scurvy, Blotches on the Skin, Disturbed Sleep, Frightful Dreams, and all Nervous and Trembling Sensations, &c. THE FIRST DOSE WILL CIVE RELIEF IN TWENTY MINUTES.
BEECHAM'S PILLS TAKEN AS DIRECTED RESTORE FEMALES TO COMPLETE HEALTH.

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It is a wise plan, as soon as the house is thoroughly cleaned, to put up wire screens at once in preparation for the inevitable fly. All drapery about the windows, oxcept the sheerest kind, and all portieres, should be dispensed with. Upholstered furniture should be beaten, dusted and inclosed in slip covers of linen or light chintz. Whenever it is possible, remove carpets and use rugs for summer, or cover the floor, if it is too rough to be stained for rugs alone, with matting. Such an arrangement will save carpets from the grit and dust of summer and prove an economy in the end. A good quality of seamless matting can be bought for \$16 a piece of forty yards. It is not necessary to use rugs, but even a few bright, home-made rugs are a great addition to any room.

A large, comfortable lounge ought to be a part of the furniture of almost any summer room. Light rattan or willow furniture is to be preferred in the parlor to any upholstered furniture. Hanging scarfs, mantel draperies, which make a winter room look cosy and "furnished," have no place in a summer room. All cushions to chairs should be made so they can be turned over. At this season the oil or gas stove may be supreme and prove an economy and comfort. With an iron or brick oven for baking and a small stove for laundry work, it is quite possible for a large family to leave the large range, which is a necessity in winter, unlighted all summer.

If the bedding is arranged the first of June for summer, and the heavier winter bedding packed away, much inconvenience and wear of material will be saved. Always leave out one heavy blanket for each bed, however, to meet sudden changes of weather, which occur so frequently in our climate. There are many ingenious ways which a good housewife will find to increase the comfort of her family and guests during the heated term. This, above all things, she will not do-allow herself to become irritated in mind and jaded in nerves by attempting more work than she can do in the heat of summer. Like the lilies of the field, she will take no anxious thought for the morrow.—N. Y. Tribune.

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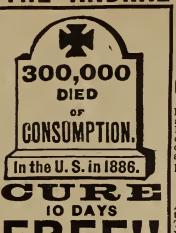
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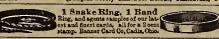
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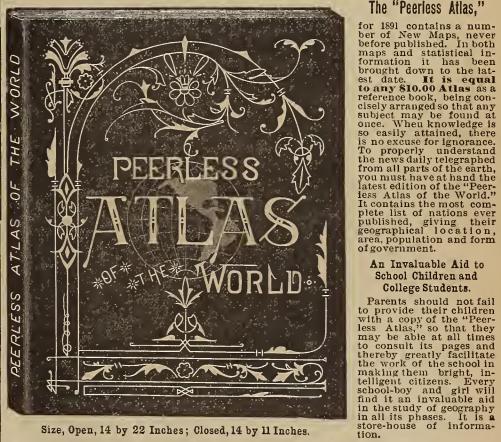
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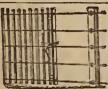


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